

**Volume**

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**R0340**

BOOK A-340

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## PRELIMINARY OATHS OF ASSISTANTS.

I, the undersigned, do solemnly declare and state on my oath, that we will level the ground with a hand tool or a hand spade, so as fully to execute the duties of assistant; that we will level the ground with a hand spade, and break stones by striking or dropping the same; that we will lay out the boundaries of plots, and the boundaries of all lines that we assist in surveying, and lay out the boundaries of plots, and in every place with instruments given us, in the survey as surveyors, and we will assist in the survey, and ability, in the survey as surveyors.

Chairman

Chairman

Do you swear to the above, before me, this day of 1893.

Signature

S. K. S. S.  
S. K. S. S.  
S. K. S. S.

I, the undersigned, do solemnly declare and state on my oath, that we will execute the duties of assistant in the establishment of surveys, and assist in the survey, and ability, in the survey as surveyors, and we will assist in the survey, and ability, in the survey as surveyors.

Chairman

Chairman

Do you swear to the above, before me, this day of 1893.

Signature

S. K. S. S.  
S. K. S. S.  
S. K. S. S.

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Chairman

Chairman

Do you swear to the above, before me, this day of 1893.

Signature

S. K. S. S.  
S. K. S. S.  
S. K. S. S.

## BOOK A-340

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**PRELIMINARY OATHS OF ASSISTANTS.**

We ..... and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this .....  
day of ..... , 189 }



We ..... and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this .....  
day of ..... , 189 }



We ..... and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this .....  
day of ..... , 189 }



I ..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this .....  
day of ..... , 189 }



## BOOK A-340

Possibly means 10 South  
17 East

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## INDEX DIAGRAM.

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Meanders Page \_\_\_\_\_

**PRELIMINARY OATHS OF ASSISTANTS.**

WE, ..... and .....

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 189 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 189 }



WE, ..... and .....

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 189 }



I, ..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

....., *Flagman.*

Subscribed and sworn to before me this ..... }  
day of ..... , 189 }



*mml  
X. S. B.*

BOOK A-340

FILED

MAR 13 1906

## FIELD NOTES

OF THE SURVEY OF THE

R-E-T-R-A-C-E-M-E-N-T O-F T-H-E

West Boundary of

Township No. 23 South,

Range No. 17 East,

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

W. D. Heist and Earl V. Woolley, United States Deputy Surveyor,  
their Contract No. 291, dated June 3, 1905.

Accomment commenced November 30, 1905.

Accomment completed December 2, 1905.

*Scale 1:65,147  
Officer 502.871*

## BOOK A-340

## NAMES AND DUTIES OF ASSISTANTS.

Robert R. Raycraft, Chainman.

Claude Gresham,

Daniel R. Adams Moundman

Willmer E. Tomlinson, Flagman.

Volume

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R0340

## BOOK A-340

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Meanders Page.....

*Not finished*

## PRELIMINARY OATHS OF ASSISTANTS.

WE, Robert R. Raycraft and Claude Gresham,  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the  
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that  
we will report the true distances to all notable objects, and the true lengths of all lines that we assist  
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey  
W.bdys.of Tps. 21-22 and 23 S., Rs. 15 and 17 E., S.L.B. & M., in the  
state of Utah.

*Robert R. Raycraft*, Chainm.  
*Claude Gresham*, Chainm.

Subscribed and sworn to before me this 30th.  
day of November, 1905



*Harvey L. Frost*  
U.S. Deputy Surveyor

WE, I., Daniel R. Adams and  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of  
corners, according to the instructions given us, to the best of our skill and ability, in the survey  
W.bdys.of Tps. 21-22 and 23 S., Rs. 15 and 17 E., S.L.B. & M., in the  
state of Utah.

*Daniel R. Adams*, Moundm.  
Moundm.

Subscribed and sworn to before me this 30th.  
day of November, 1905



*Harvey L. Frost*  
U.S. Deputy Surveyor

WE, and  
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn  
and other duties, according to instructions given us, to the best of our skill and ability, in the survey

Subscribed and sworn to before me this 30th.  
day of November, 1905



I, Willmer E. Tomlinson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of retrace of the W.bdys.of Tps. 21-22 and 23 S., Rs. 15 and 17 E., S.L.B. & M., in the state of Utah.

*Willmer E. Tomlinson* Flagma

Subscribed and sworn to before me this 30th.  
day of November, 1905



*Harvey L. Frost*  
U.S. Deputy Surveyor

RACEMENT OF THE WEST BOUNDARY OF T.23 S., R.17 E.

Survey commenced November 30, 1905, and executed with a W. & L. E. Gurley, light mountain transit, No.-, with solar attachment.

The horizontal limb is provided with two opposite verniers, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, September 26, 1905.

I examine the adjustments of the transit, and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 23 and 24 S., Rs. 16 and 17 E., which is a sandstone 15x8x4 ins. above the ground, marked and witnessed as described by the surveyor general, in approximate latitude  $38^{\circ}46'N.$ , longitude  $110^{\circ}07'W.$

I set off  $38^{\circ}46'N.$  on lat. arc,  $21^{\circ}36'S.$  on decl. arc, and at 3h. 49m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5.00 chs. N. of my station.

Nov. 30, 1905.

---

December 1: At 2h. 44m., a.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground, 5.00 chs. N. of my station.

At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}32'$  to the east and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

Retracement of the West Boundary of T.23 S., R.17 E.

## CHAINS

At 7h.49m., a.m., l.m.t., I set off  $38^{\circ}46'N.$  on lat arc,  $21^{\circ}42'S.$  on decl. arc; and mark a point in the meridian thus determined with the solar, by a cross on the stone already set 5.00 chs. N. of my station; this mark falls 0.5 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'21''$  west and  $0'26''$  east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8h.30m. a.m. is N. $15^{\circ}29'W.$ ; the angle thus determined gives the mag. decl. $15^{\circ}29'E.$

---

From the Tp.cor. already described, I retrace East, along the S.bdy. of sec.31; at 38.80 chs., no trace can be found of the  $\frac{1}{4}$  sec.cor. and at 54.70 , no trace can be found of the meander cor. on the right bank of Green River, I continue the line and can find no traces of any cor. along the entire south boundary.

As the townships north and south of this line have not been subdivided and there are no mineral claims tied to any cor. on this line, I resurvey this line after retracing the west bdy. of the township.

December 1, 1905.

---

December 2: At 7h.49m., a.m., l.m.t., I set off  $38^{\circ}46'N.$  on lat.arc,  $21^{\circ}51'S.$  on decl. arc, and determine a meridian with the solar, at the cor. of Tps. 23 and 24 S., Rs. 16 and 17 E., heretofore described.

Thence I run

North, on retracement line,

Bet. secs. 31 and 36.

Retracement of the West Bdy. of T.23 S., R.17 W.

CHAINS

- Ascend over rocky land.
- 4.50 Top of ridge, bears N.W. and S.E.
- Descend.
- 6.30 Bottom of hollow, 45 feet deep, course E.
- Ascend.
- 9.00 Top of spur, projects S.E.
- Descend.
- 11.40 Bottom of hollow, 100 ft. deep, course S.E.
- Ascend.
- 15.30 Top of spur, projects S.E.
- Descend.
- 19.40 Bottom of hollow, 75 ft. deep, course S.E.
- Begin abrupt ascent.
- 25.00 Top of bluff, 120 ft. high, bears E. and W.
- Begin abrupt descent.
- 27.30 Foot of abrupt descent, bears E. and W.
- Begin gradual descent over sandy land.
- 40.14 Intersect the  $\frac{1}{4}$  sec. cor. bet. secs. 31 and 36, which is a quartzite stone, 8x5x4 ins. above the ground, marked and witnessed as described by the surveyor general.
- 66.00 Begin abrupt descent over sandstone ledges, bear E. and W.
- 69.29 Intersect the meander cor. on the right bank of Green River which is a sandstone, 12x10x8 ins. above ground, marked and witnessed as described by the surveyor general.  
Point for triangulation  
To determine the distance across Green River, I leave a flag at this point and on a point on line, on the left bank of the river, I lay off a base, East, 7.00 chs. to a point from which the flag bears S.45°00'W., from the flag the east end of the base bears N.45°00'E., therefore, the dist is tan.45°00'Xbase, or  $1.0 \times 7.00 = 7.00$  chs., which added to 69.29 = 76.29, I continue chaining to reach high ground
- 78.29 Intersect the meander cor. on left bank of Green River, which is a cottonwood post, 3 ft. long 4 ins. sq., marked as described by the surveyor general, lying on the ground,

## Retracement of the West Boundary T.23 S., R.17 E.

CHAINS	I re-establish this cor.as follows: Set a sandstone, 18x10x4 ins., 12 ins.in the ground, for reestablished meander cor.to frac'l secs. .31 and 30, marked M.C. and 1 groove on S.face, and raise a mound of stone, 2 ft.base, 1½ ft.high, N.of cor. Pits impracticable.
79.00	Wire fence, bears E.and W.
79.20	Irrigation ditch, course E. Enter level cultivated land.
80.24	Intersect the cor.of secs.25-30-31 and 36, which is a cottonwood post, badly decayed and marks nearly obliterated, marked and witnessed as described by the surveyor general. The bearing trees have been destroyed, the stumps only remaining. I reestablish this cor.as follows: Set a sandstone, 18x15x4 ins., 12 ins.in the ground, for reestablished cor.of secs.25-30-31 and 36, marked with 1 notch on S.and 5 notches on N.edges, dig pits, 24x24x12 ins.in each sec., 5½ ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.high, W.of cor. Land, mountainous. Soil, sandy and rocky, on 79.20 chs., 3rd.rate. balance, sandy loam, 1st.rate. No timber. Mountainous land on 80.24 chs.
	North, on retracement line, Bet.secq.25 and 30. Over level cultivated land. Leave cultivated land, bears N.W.and S.E. Ascend through dense greasewood brush. Wire fence, bears N.W.and S.E. Intersect the ¼ sec.cor.betsecs.25 and 30, which is a sandstone, 10x8x5 ins.above the ground, marked and witnessed as described by the surveyor general. Begin abrupt ascent over sandstone ledges, bearing N.W.and S.E.

Retracement of the West Boundary of T.23 S., R.17 E.

CHAINS

57.00 Sandstone ridge, bears E. and W.

Descend over sandstone spurs.

77.60 Sandstone knoll, 150 ft. high, on line.

79.00 Leave sandstone ledges, bear E. and W.

Over level sand flat.

80.25 Intersect the cor. of secs. 19-24-25 and 30, which is a sandstone, 10x6x6 ins. above the ground, marked and witnessed as described by the surveyor general.

Land, mountainous.

Soil, sandy loam on 21.00 chs., 1st. rate.

balance, sandy and rocky, 4th. rate.

No timber. Undergrowth greasewood.

Mountainous land, 58.25 chs.

---

North, on retracement line,

Bet. secs. 19 and 24.

Over a sandy flat.

7.50 Begin ascent over sandstone ledges, bearing N.E. and S.W.

9.60 Sandstone spur, projects E.

Descend.

13.25 Leave sandstone ledges, bear E. and W.

Over sandy flat.

18.00 Begin ascent over sandstone ledges, bearing N.E. and S.W.

22.30 Sandstone spur, 100 ft. high, projects E.

Abrupt descent.

25.50 Leave sandstone ledges, bearing E. and W.

Begin gradual descent over sandy land.

37.50 Hollow, 100 ft. deep, course W.

Ascend.

40.42 Intersect the  $\frac{1}{4}$  sec. cor. bet. secs. 19 and 24, which is a sandstone, 10x8x5 ins. above the ground, marked and witnessed as described by the surveyor general.

51.00 Begin ascent over sandstone ledges, bearing E. and W.

56.50 Sandstone ridge, bears E. and W.

Begin abrupt descent over broken sandstone ledges.

## Retracement of the West Boundary of T.23 S., R.17 E.

CHAINS	Begin abrupt ascent over sandstone ledges.
79.00	Sandstone spur, projects W.
	Descend.
80.57	Intersect the cor. of secs. 13-18-19 and 24, which is a sandstone, 12x10x6 ins., above ground, marked and witnessed as described by the surveyor general.
	Land, mountainous.
	Soil, sandy and rocky, 4th. rate.
	No timber.
	Mountainous land, 80.57 chs.
	December 2: At this cor. I set off 21°56'S. on decl. arc. and at 11h.49m.a.m., l.m.t., observe the sun on the meridian the resulting lat. is 38°49'N.
	North, on retracement line,
	Bet. secs. 13 and 18.
	Descend over rocky land.
8.00	Hollow, 75 ft. deep, course W.
	Ascend.
5.50	Rocky spur, projects W.
	Descend.
9.50	Hollow, 75 ft. deep, course S.W.
	Ascend.
22.50	Rocky spur, projects W.
	Descend.
33.00	Hollow, 150 ft. deep, course W.
	Begin abrupt ascent.
40.12	Ridge, bears N.E. and S.W.
	Intersect the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18, which is a sandstone 12x7x6 ins. above the ground, marked and witnessed as described by the surveyor general.
47.00	Hollow, 100 ft. deep, course W.
	Ascent.
49.00	Rocky spur, projects W.
	Descend.

Retracement of the West Boundary of T.23 S., R.17 E.

CHAINS

52.10 Hollow, 100 ft. deep, course W.

Ascend.

62.50 Spur, projects W.

Descend.

65.50 Hollow, 100 ft. deep, course W.

Ascend.

72.00 Spur, projects W.

Descend.

75.00 Hollow, 150 ft. deep, course S.W.

Begin abrupt ascent.

80.28 Intersect the cor. of secs. 7-12-13 and 18, which is a limestone, 12x8x4 ins. above ground, marked and witnessed as described by the surveyor general.

Land, mountainous.

Soil, sandy and rocky, 4th. rate.

No timber.

Mountainous land, 80.28 chs.

---

North, on retracement line,

Bet. secs. 7 and 12.

Ascend over rolling land.

8.50 Begin abrupt ascent over gypsum, bearing E. and W.

15.50 Top of abrupt ascent, 300 ft. above sec.cor., bears E. and W.  
Over nearly level plateau.

40.27 Intersect the  $\frac{1}{4}$  sec.cor.bet.secs. 7 and 12, which is a sandstone, 8x6x6 ins. above the ground, marked and witnessed as described by the surveyor general.

53.00 Begin abrupt descent over sandstone ledges, bearing N.W. and S.E.

62.00 Hollow, 200 ft. below plateau, course N.

Thence along winding hollow.

76.00 Leave hollow, course N.E.

Ascend.

80.55 Intersect the cor. of secs. 1-6-7 and 12, which is a

## Retracement of the West Boundary of T.23 S., R.17 E.

CHAINS	sandstone 12x10x 3 ins. above the ground, marked and witnessed as described by the surveyor general. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land, on 37.50 chs.
	North, on retracement line, Bet. secs. 1 and 6.
	Ascend over sandy land.
.50	Spur, projects E. Descend.
12.00	Hollow, 150 ft. deep, course N.W. Ascend.
16.00	Spur, projects N.W. Descend.
32.00	Hollow, 100 ft. deep, course N.W. Ascend.
40.25	Intersect the $\frac{1}{4}$ sec. cor. bet. secs. 1 and 6, which is a sandstone, 8x7x5 ins. above ground, marked and witnessed as described by the surveyor general.
54.75	Spur, projects N.W. Descend.
65.00	Hollow, 100 ft. deep, course W. Ascend.
76.00	Spur, projects W. Descend.
78.50	Hollow, 150 ft. deep, course S.W. Ascend.
81.16	Intersect the cor. of Tps. 22 and 23 S., Rs. 16 and 17 E., which is a sandstone, 18x10x4 ins. above ground, marked and witnessed as described by the surveyor general. Landmountainous. Soil, sandy and rocky, 3rd. rate. No timber.

Retracement of the West Boundary of T.23 S., R.17 E.

Mountainous land on 81.16 chs.

December 2, 1905.

For General Description, see, Subdivisions of T.23 S.R.17 E.

For table of Latitudes and Departures, see North Bdy. of  
T.23 S., R.17 E.

Henry M. Heath  
U.S. Deputy Surveyor.

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**PAGE**

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and ing the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_  
ing the respective capacities in which they acted:

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

Final affidavits see book "T", Tp. 21 S., R. 14 E. \_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all parts or portions of the \_\_\_\_\_  
of the \_\_\_\_\_  
meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented

foregoing field notes as having been surveyed by him and under his direction; and that said survey  
een in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
r monuments established, according to the instructions furnished by the United States Surveyor  
al for \_\_\_\_\_

Final affidavits see book "T", Tp. 21 S., R. 14 E. \_\_\_\_\_, Chainman.

\_\_\_\_\_, Chainman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Moundman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Axman.

\_\_\_\_\_, Flagman.

cribed and sworn to before me this \_\_\_\_\_  
ay of \_\_\_\_\_, 190 \_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, bearing date of the \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final affidavit see book "T", Tp. 21 S., R. 14 E.  
of the

meridian, in the \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_. }

○○○○○  
○ SEAL ○  
○○○○○

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1905.

The foregoing field notes of the ~~Survey of~~ Retracement of the West Boundary of Township No. 23 South, Range No. 17 East of the Salt Lake Base and Meridian, Utah, \_\_\_\_\_.

executed by Harvey D. Heist and Earl V. Woolley  
under their contract No. 281, dated June 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the retracements they describe, are hereby approved.

*Thomas Kell*  
United States Surveyor Gen.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

*United States Surveyor Gen.*

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*M.M.C.  
A.J.B.*

4-679.

FILED

MAR 13 1905

BOOK A-340

"B"

## FIELD NOTES

OF THE <sup>Re</sup> SURVEY OF THE

S-O-U-T-H, E-A-S-T, and N-O-R-T-H

BOUNDARIES OF

Township No. 23 South,

Range No. 17 East,

Of the Salt Lake Base and Meridian,

in the state of Utah,

AS SURVEYED BY

E. D. Heist and Earl V. Woolley, United States Deputy Surveyors

their <sup>his</sup> Contract No. 291, dated June 3, 1905.

began December 3, 1905.

completed December 6, 1905.

Bearng	5.78 00	/
East	6.03 05	/
South	5.78 05	/
	17 79 '0	

NAMES AND DUTIES OF ASSISTANTS.

Robert R. Raycraft,.....Chairman.

Claude Graham,....."

Daniel, R. Adams.....Moundman.

Willmer E. Tomlinson,.....Flagman.

Volume

6-161

#

R0340

BOOK A-340

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Meanders Page.....

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**TRANSCRIBED COPY OF  
BOOK A-340 ORIGINAL FIELD NOTES  
PRELIMINARY OATHS OF ASSISTANTS.**

WE, Robert R. Raycraft and Claude Gresham

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the N. & E. bds. of Ts. 22 and 23 S., R. 17 E., and the S. bds. of Ts. 21-22 & 23 S., R. 15 E. and T. 23 S., R. 17 E., S.L.B. and M., in the state of Utah.

Robert R. Raycraft, Chairman  
Claude Gresham, Chairman

Subscribed and sworn to before me this 2nd.  
day of December, 1905



Fanny M. Flint  
U.S. Deputy Surveyor

WE, I. Daniel R. Adams and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the N. & E. bds. of Ts. 22 and 23 S., R. 17 E., the S. bds. of Ts. 21-22 and 23 S., R. 15 E. and T. 23 S., R. 17 E., S.L.B. & M., in the state of Utah.

I. Daniel R. Adams, Moundman  
Moundman

Subscribed and sworn to before me this 2nd.  
day of December, 190 5



Fanny M. Flint  
U.S. Deputy Surveyor

WE, \_\_\_\_\_ and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn and other duties, according to instructions given us, to the best of our skill and ability, in the survey

Axman

Subscribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_



Axman

I, Willmer E. Tomlinson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the N. & E. bds. of Ts. 22 and 23 S., R. 17 E., and the S. bds. of Ts. 21-22 and 23 S., R. 15 E. and T. 23 S., R. 17 E., S.L.B. & M., in the state of Ut.

Willmer E. Tomlinson, Flagman

Subscribed and sworn to before me this 2nd.  
day of December, 190 5



Fanny M. Flint  
U.S. Deputy Surveyor

Resurvey of the South Boundary of T.23 S., R.17 E.

## CHAINS

Survey commenced, December 3, 1905, and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment from recent observations made November 30 and December 1, 1905, and recorded in book "A", of this survey.

At the cor. of Tps. 23 and 24 S., Rs. 16 and 17 E., heretofore described, at 7h.50m. a.m., l.m.t., I set off  $38^{\circ}46'N.$  on lat. arc,  $22^{\circ}00'S.$  on decl. arc, and determine a meridian with the solar.

Thence I run

East, bet. secs. 6 and 31.

Ascend over rocky land.

7.00 Spur, projects S.

Descend.

10.30 Hollow, 100 ft. deep, course S.

Ascend.

15.00 Ridge, bears N.W. and S.E.

Descend.

23.00 Hollow, 100 ft. deep, course S.E.

Ascend.

33.00 Ridge, bears N.W. and S.E.

Descend.

35.40 Hollow, 100 ft. deep, course S.E.

Ascend.

38.80 Allowing for convergency, set a sandstone, 18x8x4 ins., 12 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor. for secs. 6 and 31, marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec. cor.

39.90 Spur, projects S.E.

Descend.

41.70 Hollow, 50 ft. deep, course S.E.

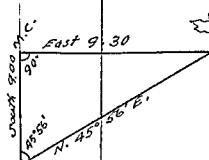
Ascend.

42.75 Spur, projects S.E.

## Resurvey of the South Boundary of T.23 S., R.17 E.

## CHAINS

- Descend abruptly over sandstone ledges.
- 49.07 To right bank of Green River, bank 25 ft. high.  
Set a sandstone 24x8x4 ins., 18 ins. in the ground, for reestablished meander cor. of fractional secs. 6 and 31, marked M.C. on E. and 1 groove on W. faces, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
No trace can be found of the old meander cor.  
Point for triangulation.  
To determine the distance across Green River, I set a flag on line, on left bank; then measure a base, South, 9.00 chs, dist. to a point, from which the flag bears N.45°56'E.; from the flag the south end of the base bears S.45°56'W., therefore, the dist. is tan.45°56'Xbase, or  $1.0331 \times 9.00 = 9.30$  chs, ; making the whole distance from meander cor. 58.37 chs.
- 58.37 To left bank of Green River, bank 20 ft. high.  
Set a sandstone, 24x10x7 ins., 18 ins. in the ground, for reestablished meander cor. of fract. secs. 6 and 31, marked M.C. on W. and 5 grooves on E. faces, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, E. of cor.  
Pits impracticable.  
No trace can be found of the old meander cor.  
Begin gradual ascent through dense greasewood brush.
- 78.80 Set a sandstone 12x10x6 ins., 8 ins. in the ground for reestablished cor. of secs. 5-6-31 and 32, marked with 1 notch on W. and 5 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
After diligent search no trace can be found of the old cor. to secs. 5-6-31 and 32.  
Land mountainous and bottoms.  
Soil, bottom land, 20.43 chs, 1st. rate.  
balance, rocky 3rd. rate.  
No timber.  
Mountainous land or dense undergrowth on 78.80 chs.



## Resurvey of the South Boundary of T.23 S., R.17 E.

CHAINS

East, bet. secs. 5 and 32.

- Ascend gradually through dense greasewood brush.
- 4.00 Enter, wash 3.00 chs. wide, 15 ft. deep, course from E. to S.W.
- Ascend along wash.
- 13.90 Wire fence, bears N. and S.
- 19.50 Leave wash, course from S.E. to W.
- Ascend over rocky land.
- 23.50 Wire fence bears N. and S.
- Begin abrupt ascent over sandstone ledges, bearing N.W. and S.E.
- 40.00 Sandstone spur, projecting S.
- Set a sandstone, 24x15x4 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- Pits impracticable.
- No trace can be found of the old  $\frac{1}{4}$  sec. cor.
- Begin abrupt descent.
- 45.00 Foot of sandstone ledges, bearing N.E. and S.W.
- Over level sandy land.
- 49.50 Begin abrupt ascent over sandstone ledges, bearing N.W. and S.E.
- 70.00 Sandstone spur, projects S.
- Begin abrupt descent.
- 75.00 Hollow, 150 ft. deep, course S.W.
- Ascend.
- 80.00 Set a sandstone, 20x10x7 ins., 15 ins. in the ground, for reestablished cor. of secs. 4-5-32 and 33, marked with 2 notches on W. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- After diligent search no trace can be found of the old sec. cor.
- Land, mountainous.
- Soil, bottom land on 19.50 chs., 1st. rate.
- balance, rocky, 3rd. and 4th. rate.

## Resurvey of the South Boundary of T.23 S., R.1

CHAINS	No timber. Mountainous land or dense undergrowth on 80.00 chs.
	East, bet. secs. 4 and 33.
	Ascend over sandstone ledges.
14.50	Spur, projects S.W. Leave sandstone ledges, enter sandy land and dense greasewood brush.
19.00	Hollow, 100 ft. deep, course S.W. Ascend.
40.00	Set a sandstone, 15x8x8 ins., 10 ins. in the ground, for sec. cor. marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. No trace can be found of the old $\frac{1}{4}$ sec. cor.
58.00	Ridge, bears N.E. and S.W. Descend.
64.00	Hollow, 100 ft. deep, course S.W. Ascend.
72.00	Spur, projects S.W. Descend.
79.60	Hollow, 50 ft. deep, course S.W. Ascend.
80.00	Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for reestablished cor. of secs. 3-4-33 and 34, marked with 3 notches on E. and W. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. No trace can be found of the old $\frac{1}{4}$ sec. cor. Land mountainous. Land, sandy and rocky, 3rd. and 4th. rate. No timber. Undergrowth greasewood. Mountainous land on 80.00 chs.
	December 3: At this cor. I set off 22°04' 5. on sec. cor.

## Resurvey of the South Boundary of T.23 S., R.17 E.

## CHAINS

and at 11h.50m., a.m., l.m.t., observe the sun on the meridian, the resulting, lat. is  $38^{\circ}46'N.$

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East, bet. secs. 3 and 34.

Ascend over sandy land, through dense mountain rush.

26.00 Ridge, N.W. and S.E.

Descend.

29.50 Hollow, 50' deep, course N.

Ascend.

33.50 Spur, projects N.

Descend.

38.75 Hollow, 50 ft. deep, course N.W.

Ascend.

40.00 Set a sandstone, 15x10x9 ins., 10 ins. in the ground, for reestablished  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

78.50 Ridge, bears N. and S.

Descend.

80.00 Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for reestablished cor. of secs 28-33-34 and 35, marked with 4 notches on W. and 2 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old sec.cor.

Land, mountainous.

Soil, sandy, 3rd. rate.

No timber.

Mountainous land, or dense undergrowth on 80.00 chs.

---

East, bet. secs. 2 and 35.

Descend over rocky land.

11.00 Hollow, 150 ft. deep, course S.W.

Ascend.

## Resurvey of the South Boundary of T.23 S., R.17 E.

CHAINS	
14.00	Rocky spur, projects S.W. Descend.
16.25	Hollow, 150 ft. deep, course S.W. Ascend.
18.50	Spur, projects S.W. Descend.
21.00	Hollow, 150 ft. deep, course S.W. Ascend.
27.00	Spur, projects S.W. Descend.
29.75	Hollow, 150 ft. deep, course S.W. Ascend.
40.00	Set a sandstone, 20x12x5 ins., 15 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. No trace can be found of the old $\frac{1}{4}$ sec.cor.
44.00	Spur, projects S.W. Descend.
47.50	Hollow, 150 ft. deep, course S.W. Ascend over broken land.
76.00	Begin abrupt ascent over solid sandstone ledges, bearing N.E. and S.W.
78.50	Sandstone spur, projecting S.W. Begin abrupt descent over solid sandstone ledges.
79.75	Foot of sandstone ledges, bearing N.E. and S.W. Descend over rocky land.
80.00	Set a sandstone, 18x6x5 ins., 12 ins. in the ground, for reestablished cor. of secs. 1-2-35 and 36, marked with 1 notch on E. end 5 notches on W. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. No trace can be found of the old sec.cor.

## Resurvey of the South Boundary of T.23 S., R.17 E.

## CHAINS

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

---

East, bet. secs. 1 and 36.

Descend over rocky land.

1.00 Hollow, 200 ft. deep, course S.W.

Begin abrupt ascent over solid sandstone spurs, projecting S.W.

4.35 Sandstone ridge, bears N. and S.

Begin abrupt descent.

10.00 Point for cor. falls on solid sandstone.

I cut a cross (X), at the exact point for reestablished  $\frac{1}{4}$  sec. cor., mark  $\frac{1}{4}$  on N. side of cross, and raise a mound of stone, 3 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec. cor.

6.00 Foot of sandstone ledges, bearing N.E. and S.W.

Begin gradual descent over sandy land, through dense artemisia.

80.00 Set a sandstone, 18x6x5 ins., 12 ins. in the ground, for reestablished cor. of Tps. 23 and 24 S., Rs. 17 and 18 E. marked,

23 S., on N.E.,

18 E., on S.E.,

24 S., on S.W., and

17 E., on N.W. face, with 6 notches on each edge,

dig pits 24x24x12 ins., on each line, N.E. and W., 4 ft.

and S. of stone 8 ft. dist.; and raise a mound of earth,

5 ft. base,  $2\frac{1}{2}$  ft. high, S. of cor.

-8-

Resurvey of the South Boundary of T.23 S., R.17 E.

CHAINS

After diligent search, no trace can be found of the old cor. of Tps. 23 and 24 S., Rs. 17 and 18 E.

Land mountainous and sandy slope.

Soil, rocky on 40.00 chs., 4th. rate.

balance, sandy, 3rd. rate.

No timber.

Mountainous land or

dense undergrowth on 80.00 chs.

December 3, 1905.

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## Resurvey of the East Boundary of T.23 S., R.17 E.

## CHAINS

December 4: At 7h.50m., a.m., l.m.t., I set off  $38^{\circ}46'N.$  on lat.arc,  $22^{\circ}08'S.$  on decl.arc, and determine with the solar a meridian, at the cor. of Tps. 23 and 24 S., Rs. 17 and 18 E., heretofore described.

Thence I run

North, bet. secs. 31 and 36.

Ascend gradually over sandy land, through dense artemisia

40.00 Set a sandstone,  $18 \times 12 \times 3$  ins., 12 ins. in the ground, for reestablished  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, dig pits,  $18 \times 8 \times 12$  ins., N. and S. of stone, 3 ft. dist, and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

76.00 Begin ascent over sandstone ledges, bearing N.E. and S.W.

80.00 Top of a sandstone spur, projecting E.

Point for cor. falls on a smooth sandstone floor, I cut a cross (X), at exact point for reestablished cor. of secs. 25-30-31 and 36, mark 1 groove on S. and 5 grooves on N. sides of cross and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old sec.cor.

Land, sandy slope.

Soil, sandy on 76.00 chs., 3rd. rate.

balance sandstone ledges, 4th. rate.

No timber.

Dense undergrowth or mountainous land on 80.00 chs.

North, bet. secs. 25 and 30.

Descend over sandstone ledges.

3.50 Hollow, 100 ft. deep, course S.E.

Ascend over sandy land.

12.50 Begin abrupt ascent over sandstone ledges, bearing N.W. and S.E.

25.00 Sandstone spur, projecting S.E.

## Resurvey of the East Boundary of T.23 S., R.17 E.

CHAINS	
	Descend.
31.00	Hollow, 100 ft. deep, course S.E.
	Begin abrupt ascent over sandstone boulders.
40.00	Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	No trace can be found of the old $\frac{1}{4}$ sec.cor.
46.00	Sandstone ridge, 250 ft. high, bears E. and W.
	Begin abrupt descent.
64.00	Hollow, 150 ft. deep, course N.W.
	Begin abrupt ascent.
71.00	Rocky ridge, N.W. and S.E.
	Begin abrupt descent.
80.00	Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for cor. of secs. 19-24-25 and 30, marked with 2 notches on S. and 4 notches on N.edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	This cor. was not set on the previous survey, according to the surveyor general.
	Land, mountainous.
	Soil, rocky, 4th. rate.
	No timber.
	Mountainous land on 80.00 chs.
<hr/>	
	North, bet. secs. 19 and 24.
	Descend over rocky land.
.30	Hollow, 100 ft. deep, course N.W.
	Ascend.
2.60	Rocky spur, projects N.W.
	Descend.
11.00	Hollow, 150 ft. deep, course W.
	Begin abrupt ascent over broken sandstone ledges and boulders.

## Resurvey of the East Boundary of T.23 S., R.17 E.

## CHAINS

40.00 Set a sandstone, 18x8x6 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor..  
Pits impracticable.

This cor.was not set on the previous survey according to the surveyor general.

72.00 Rocky ridge, 250 ft.above the hollow, bears N.W. and S.E.  
Begin abrupt descent over broken sandstone ledges.

80.00 Set a sandstone, 24x18x6 ins., 18 ins. in the ground, for cor.of secs.13-18-19 and 24, marked with 3 notches on N. and S.edges, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft. high, W.of cor..  
Pits impracticable.

This cor.was not set on the previous survey, according to the surveyor general.

Land, mountainous.

Soil, rocky, 4th. rate.

No timber.

Mountainous land on 80.00 chs.

December 4: At this cor.I set off 22°13'S.on decl.arc, and at 11h.50m., a.m., l.r.t., observe the sun on the meridian, the resulting lat.is 38°49'N.

---

North,betsecs.13 and 18.

Descend abruptly over broken sandstone ledges)

29.00 Foot of abrupt descent, bears N.W. and S.E.  
Descend over sandy land, through dense artemisia.

39.25 Hollow, 150 ft.below sec.cor., course, N.W.  
Ascend.

40.00 Set a quartzite stone, 15x10x4 ins., 10 ins.in the ground, for reestablished  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft. high, W.of cor..  
Pits impracticable.  
No trace can be found of the old  $\frac{1}{4}$  sec.cor.  
41.00 Top of spur, projects W.  
Descend.

## Resurvey of the East Boundary of T.23 N., R.17 E.

DHAINS	
43.00	Same hollow, 50 ft. deep, course N.E. Ascend.
58.00	Spur, projects N.E. Descend.
66.00	Hollow, 50 ft. deep, course N.E. Ascend.
77.00	Spur, projects N.F.
80.00	Set a sandstone, 18x6x5 ins., 12 ins. in the ground, for reestablished cor. of secs. 7-12-13 and 18, marked with 4 notches on S. and 2 notches on N. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trace can be found of the old sec.cor. Land, mountainous. Soil, rocky and sandy, 3rd, and 4th. rate. No timber. Undergrowth artemisia. Mountainous land on 80.00 chs.
	North, bet. secs. 7 and 12.
	Descend over sandy land, through dense artemisia.
24.00	Hollow, 100 ft. deep, course N.W. Ascend.
33.50	Rocky spur, projects W. Descend.
37.00	Same hollow, 100 ft. deep, course N.W. Ascend.
40.00	Top of a small spur, projecting E. Set a sandstone, 30x12x5 ins., 23 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trace can be found of the old $\frac{1}{4}$ sec.cor. Descend.
42.00	Same hollow, 100 ft. deep, course N.W. Ascend.
43.25	Spur, projects W.

## Resurvey of the East Boundary of T.23 S., R.17 E.

## CHAINS

Descend.

44.50 Same hollow, 100 ft. deep, course N.

Descend along hollow.

52.00 Leave hollow, course N.W.

Ascend.

54.50 Spur, projects W.

Descend.

62.60 Hollow, 150 ft. deep, course W.

Begin abrupt ascent over rocky land.

70.00 Rocky ridge, bears N.W. and S.E.

Begin abrupt descent.

80.00 Set a sandstone, 24x5x4 ins., 18 ins. in the ground, for cor  
of secs. 1-6-7 and 12, marked with 5 notches on S. and 1  
notch on N. edges, and raise a mound of stone, 2 ft. base,  
 $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old sec.cor.

Land, mountainous.

Soil, sandy and rocky, 3rd. rate.

No timber; undergrowth artemisia.

Mountainous land on 80.00 chs.

---

North, bet. secs. 1 and 6.

Descend abruptly over rocky land.

19.75 Road to Little Grande, bears N.E. and S.W., in bottom of  
hollow, 200 ft. deep, course S.W.

Begin abrupt ascent.

28.00 Rocky ridge, bears E. and W.

Begin abrupt descent.

40.00 Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for  
reestablished  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W. face, and raise a  
mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

## Resurvey of the East Boundary of T.23 S., R.17 E.

CHAINS	
46.00	Bottom of hollow, 200 ft. below top of ridge, course E. Begin abrupt ascent.
50.50	Rocky spur, projects E. Abrupt descent.
52.00	Hollow, 150 ft. deep, course E. Abrupt ascent.
52.75	Rocky spur, projects E. Descend.
60.50	Hollow, 150 ft. deep, course S.E. Begin abrupt ascent.
72.00	Ridge, bears N.W. and S.E. Descend. Running a distance equal to the length of the west boundary of this township, to
83.05	In bottom of hollow, 100 ft. deep, course S.E. Set a sandstone, 22x8x7 ins., 16 ins. in the ground, for reestablished cor. of Tps. 22 and 23 S., Rs. 17 and 18 E., marked, 22 S., on N.E., 18 E., on S.E., 23 S., on S.W., and 17 E., on N.W. face, and with C notches on each edge, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor. Pits impracticable. After diligent search no trace can be found of the old cor. of Tps. 22 and 23 S., Rs. 17 and 18 E. Land, mountainous. Soil, rocky and sandy, 3rd. rate. No timber. Mountainous land on 83.05 chs.

December 4, 1905.

## Resurvey of the North Boundary of T.23 S., R.17 E.

## CHAINS

December 5: At 7h.51m., a.m., l.m.t., I set off  $58^{\circ}51'N.$  on lat.arc.,  $22^{\circ}16'S.$  on decl.arc., and determine a meridian with the solar, at the cor. of Tps. 22 and 23 S., Rs. 17 and 18 E., heretofore described.

Thence I run

West on a random line, along the N.bdy. of T.23 S., R.17 E. setting temp.  $\frac{1}{4}$  sec. and sec.cors. at intervals of 40.00 chs.; and at 478.05 chs., fall 28 lks. N. of the cor. of Tps. 22 and 23 S., Rs. 16 and 17 E., heretofore described. The falling answers to a correction of  $0^{\circ}02'$ , or 5 lks. S. per mile, counting from the N.E.cor. of the Tp.; therefore I run

N. $89^{\circ}58'E.$ , bet. secs. 6 and 31,

Descend abruptly over rocky land.

1.50 Hollow, 150 ft. deep, course S.W.

Ascend abruptly over broken and rocky land.

38.05 Set a sandstone, 15x12x4 ins., 10 ins. in the ground, for reestablished  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

47.00 Ridge, bears N. and S.

Begin abrupt descent over gypsum.

63.50 Hollow, 200 ft. below ridge, course N.

Begin abrupt ascent.

67.00 Gypsum spur, projects N.

Begin abrupt descent.

70.00 Hollow, 150 ft. deep, course N.

Begin abrupt ascent.

72.00 Gypsum spur, projects N.

Begin abrupt descent.

75.50 Hollow, 100 ft. deep, course N.

Abrupt ascent.

## Resurvey of the North Boundary of T.23 S., R.17 E.

CHAINS	
77.50	Top of abrupt ascent, bears N. and S. Over top of flat spur.
78.05	Set a limestone, 24x10x4 ins, 18 ins. in the ground, for reestablished cor. of secs. 5-6-31 and 32, marked with 5 notches on E. and 1 notch on W. edges, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable. No trace can be found of the old sec. cor.
	Land, mountainous. Soil, rocky and gypsum, 3rd. rate. No timber. Mountainous land on 78.05 chs.

December 5, 1905.

December 6: At 7h.51m., a.m., l.m.t., I set off  $22^{\circ}24' S.$   
on decl. arc,  $38^{\circ}51' N.$  on lat. arc, and determine a meridian  
with the solar, at the cor. of secs. 5-6-31 and 32.

Thence I run,

 $N.89^{\circ}58'E.$ , bet. secs. 5 and 32.Over level top of spur, projecting north, over level  
land.

2.25	Begin abrupt descent, bearing N.W. and S.E.
10.40	Hollow, 200 ft. deep, course N.W. Begin abrupt ascent.
20.50	Top of abrupt ascent, bears N. and S. Gradual ascent.
27.00	Gypsum spur, projects N. Descend.
28.50	Hollow, 150 ft. deep, course N. Ascend.
35.00	Spur, projects N. Descend.
40.00	Set a sandstone, 24x8x7 ins., 18 ins. in the ground, for reestablished $\frac{1}{2}$ sec. cor., marked $\frac{1}{2}$ on N. face, and raise a

## Resurvey of the North Boundary of T.23 S., R.17 E.

## CHAINS

mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec. cor.

40.05 Hollow, 150 ft. deep, course N.

Abrupt ascent.

43.70 Gypsum spur, projects N.

Descend.

45.25 Hollow, 100 ft. deep, course N.

Ascend.

48.00 Gypsum spur, projects N.

Descend.

50.00 Hollow, 100 ft. deep, course N.

Ascend over broken land.

53.00 Rocky spur, projects N.

Begin abrupt descent.

57.00 Foot of abrupt descent, bears N.W. and S.E.

Leave rocky land.

Descend gradually over sandy land through dense artemisia.

80.00 Set a sandstone, 36x5x4 ins., 27 ins. in the ground, for reestablished cor. of secs. 4-5-32 and 33, marked with 2 notches on W. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old sec. cor.

Land, mountainous.

Soil, rocky on 72.00 chs., 3rd. rate.

balance sandy, 2nd. rate.

No timber. Undergrowth artemisia.

Mountainous land on 80.00 chs.

---

## Resurvey of the North Boundary of T.23 S., R.17 E.

CHAINS	N. $89^{\circ}58' E.$ , bet. secs. 4 and 33.
	Descend gradually over sandy land, through dense artemisia.
20.00	Hollow, 75 ft. deep, course N.E.
	Ascend.
25.00	Spur, projects N.
	Descend.
29.75	Enter bottom of wide hollow, 150 ft. deep, course N.W.
	Ascend along bottom of hollow, course E.
40.00	Set a lava stone, 20x10x4 ins., 15 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
	No trace can be found of the old $\frac{1}{4}$ sec.cor.
47.00	Leave hollow, course from NE. to W.
	Ascend gradually through dense artemisia.
50.00	Set a sandstone, 30x5x4 ins., 25 ins. in the ground, for reestablished cor. of secs. 3-4-33 and 34, marked with 3 notches on E. and W. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	No trace can be found of the old sec.cor.
	Land, rolling.
	Soil, sandy, 2nd. and 3rd. rate.
	No timber.
	Dense undergrowth on 80.00 chs.
<hr/>	
	N. $89^{\circ}58' E.$ , bet. secs. 3. and 34.
	Ascend gradually through dense artemisia.
7.50	Road, to Green River, bears N. and S.
7.80	Enter bottom of hollow, 200 ft. deep, course N.W.
	Ascend along bottom of hollow, course W.
22.00	Leave hollow, course from S.E. to W.
	Ascend.

## Resurvey of the North Boundary of T.23 S., R.17 E.

C. L. S

40.00 Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec. cor.

51.00 Begin abrupt ascent over sandstone ledges, bearing N. and S.

53.75 Sandstone spur, projecting S.

Descend over sandstone spurs projecting S.

76.00 Hollow, 100 ft. deep, course S.

Ascend.

79.50 Spur, projects S.

Descend.

80.00 Set a sandstone, 30x15x12 ins., 25 ins. in the ground, for reestablished cor. of secs. 2-3-34 and 35, marked with 4 notches on W. and 2 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old sec. cor.

Land, mountainous, and rolling.

Soil, sandy and rocky, 3rd. and 4th. rate.

No timber.

Mountainous land or dense undergrowth on 80% obs.

December 6: At this cor. I set off  $22^{\circ}28' S.$  on decl. arc, and at 11h.51m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ}51' N.$

---

N.  $38^{\circ}58' E.$ , bet. secs. 2 and 35.

Descend over broken sandstone ledges.

5.50 Hollow, 150 ft. deep, course S.

Abrupt ascent.

8.50 Sandstone spur, projects S.

Abrupt descent.

21.00 Hollow, 150 ft. deep, course S.W.

Ascent.

## Resurvey of the North Boundary of T. 23 S., R. 17 E.

CHAINS	
32.00	Spur, projects S. Descend.
40.00	Set a sandstone, 18x5x4 ins., 12 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. No trace can be found of the old $\frac{1}{4}$ sec.cor.
52.50	Hollow, 150 ft. deep, course S.W. Ascend abruptly over broken sandstone ledges and sandstone boulders.
80.00	Point for cor. falls upon a sandstone boulder, 6x6x5 ft. above ground; I cut a cross (X) at exact point for reestablished cor. of secs. 1-2-35 and 36, mark 5 grooves on W. and 1 groove on E. sides of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. No trace can be found of the old sec.cor. Land, mountainous. Soil, rocky, 4th. rate. No timber. Mountainous land on 80.00 chs.

N. 89° 58' E., bet. secs. 1 and 36.

	Ascend abruptly over sandstone boulders.
4.00	Sandstone spur, projects S. Abrupt descent.
9.00	Hollow, 150 ft. deep, course S. Begin abrupt ascent over broken sandstone ledges.
29.00	Rocky ridge, bears N. and S. Abrupt descent.
40.00	Set a sandstone, 15x10x4 ins., 10 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.

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## Resurvey of the North Boundary of T.23 S., R.17 E.

## CHAINS

- No trace can be found of the old  $\frac{1}{4}$  sec.cor.
- 60.25 Hollow, 100 ft. deep, course S.E.  
Ascend.
- 75.00 Ridge, bears N.W. and S.E.  
Descend.
- 80.00 Bottom of hollow, 100 ft. deep, course S.E.  
The cor. of Tps. 23 and 25 S., Rs. 17 and 18 E.  
Land, mountainous.  
Soil, rocky, 3rd. and 4th. rate.  
No timber.  
Mountainous land on 80.00 chs.

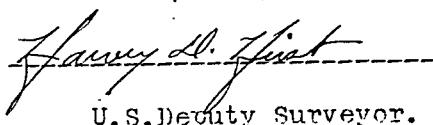
December 6, 1905.

For General Description, see Subdivisions of T.23 S.R.17 E.

## BOUNDARIES OF T.23 S., R.17 E.

Latitudes, departures and closing errors.

Line designated	True Bearing	Distance.	Latitudes	Departures
			N. . . S.	E. . . W.
W. Bdy.	North	. 483.05 .	483.05 .	. .
N. Bdy.	N. 89° 58' F.	. 478.05 .	.28. .	.478.05 .
F. Bdy.	South	. 483.05 .	. 483.05 .	. .
S. Bdy.	West	. . .	. . .	. . . 478.80
Convergency				.58
Totals		-----	483.33 483.05 478.63	478.80 478.63
Error in lat.			483.05 0.28	Error in dep. 0.17



U.S. Deputy Surveyor.

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**PAGE**

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_  
\_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and  
ing the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_  
ing the respective capacities in which they acted:

\_\_\_\_\_, *Chairman.*

\_\_\_\_\_, *Chairman.*

final affidavits see book "P" T. 22 S., R. 15 E. \_\_\_\_\_, *Moundman.*  
\_\_\_\_\_, *Moundman.*

\_\_\_\_\_, *Axman.*

\_\_\_\_\_, *Axman.*

\_\_\_\_\_, *Flagman.*

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_  
\_\_\_\_\_, United States Deputy Surveyor, in surveying all  
parts or portions of the \_\_\_\_\_  
of the \_\_\_\_\_

meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented  
foregoing field notes as having been surveyed by him and under his direction; and that said survey  
en in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
monuments established, according to the instructions furnished by the United States Surveyor  
al for \_\_\_\_\_

final affidavits see book "P". T. 22 S., R. 15 E. \_\_\_\_\_, *Chairman.*

\_\_\_\_\_, *Chairman.*

\_\_\_\_\_, *Moundman.*

\_\_\_\_\_, *Moundman.*

\_\_\_\_\_, *Axman.*

\_\_\_\_\_, *Axman.*

\_\_\_\_\_, *Flagman.*

ribed and sworn to before me this \_\_\_\_\_ }  
y of \_\_\_\_\_, 190 }  
{



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date of \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final affidavits see book "P". T. 22 S., R. 15 E.

.....of the ..... meridian, in the ..... of ..... which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }

○○○○○  
O SEAL O  
○○○○○

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1905

<sup>re</sup>  
The foregoing field notes of the survey of the South, East, and North Boundary of Township No. 23 South, Range No. 17 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley  
under their contract No. 291, dated June 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas H. Hart  
United States Surveyor Gen.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

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4-679.

"C"

BOOK A-340

M.M. J.  
X. S. S.

FILED

MAR 13 1906

## FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N-S

of

Township No. 23 South,

Range No. 17 East,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

ev. D. Heist &amp; Marl V. Woolley, United States Deputy Surveyors

their Contract No. 291, dated June 3, 1905.

y commenced December 7, 1905.

y completed December 17, 1905.

6-161

11/2 56.57.37 ✓  
 11/2 347.65 ✓

Colby  
 B. M. G.

11/2 2.32.40 ✓  
 11/2 116.89 ✓

11/2 3 - 11 - 12 ✓

11/2 116.89 ✓

11/2 2.32.40 ✓

**NAMES AND DUTIES OF ASSISTANTS.**

Robert R. Raycraft, Chairman.

Claude Gresham, "

Daniel R. Adams, Moundman.

Willmer F. Tomlinson, Flagman.

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# Volume

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## #

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# R0340

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BOOK A-340

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*Meanders Page 53 and 54.*

## PRELIMINARY OATHS OF ASSISTANTS.

WE, Robert R. Raycraft and Claude Graham  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level  
chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same;  
we will report the true distances to all notable objects, and the true lengths of all lines that we are  
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey  
the Subdivisions of Tps. 21, 22 and 23, S., R. 17 E. and Tps. 21, 22 and 23  
R. 15 E., S. L. B. & M., in the state of Utah.

Robert R. Raycraft, Chain.  
Claude Graham, Chain.

Subscribed and sworn to before me this 6th  
day of December, 1905.



Harry H. Frist  
U.S. Deputy Surveyor.

WE, Daniel R. Adams and  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment  
of corners, according to the instructions given us, to the best of our skill and ability, in the survey  
the Subdivisions of Tps. 21, 22 and 23 S., R. 17 E. and Tps. 21, 22 and 23 S.  
R. 15 E., S. L. B. & M., in the state of Utah.

Daniel R. Adams, Mound.

Subscribed and sworn to before me this 6th  
day of December, 1905.



Harry H. Frist  
U.S. Deputy Surveyor.

WE, and  
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of  
and other duties, according to instructions given us, to the best of our skill and ability, in the survey

Ax.

Subscribed and sworn to before me this  
day of December, 1905.



I, Willmer E. Tomlinson, do solemnly swear that I will well and  
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in  
the survey of the Subdivisions of Tps. 21, 22 and 23 S., R. 17 E., & Tps. 21, 22  
S., R. 15 E., S. L. B. & M., in the state of Utah.

Willmer E. Tomlinson, Flag.

Subscribed and sworn to before me this 6th  
day of December, 1905.



Harry H. Frist  
U.S. Deputy Surveyor.

## Subdivisions of T.23 S., R.17 E.

CHAINS

Survey commenced, December 7, 1905, and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment, from recent observations made November 30 and December 1, 1905 and recorded in book "A", of this survey.

I commence at the cor. of secs. 1-2-35 and 36, heretofore described on the S.bdy. of the Tp.

At 7h.51m., a.m., l.m.t., I set off  $38^{\circ}46'N.$  on lat.arc.,  $22^{\circ}31'S.$  on decl.arc, and determine a meridian with the solar.

Thence I run

$N.0^{\circ}01'W.$ , bet. secs. 35 and 36.

Ascend abruptly over solid sandstone ledges.

- 5.90 Sandstone ridge, bears N.E. and S.W.  
Begin abrupt descent.
- 7.50 Leave solid sandstone ledges, bearing N.E. and S.W.  
Descend over sandy and rocky land.
- 24.00 Hollow, 200 ft. deep, course S.W.  
Begin abrupt ascent over solid sandstone ledges.
- 34.30 Sandstone ridge, bears N.E. and S.W.  
Begin abrupt ascent.
- 38.50 Hollow, 200 ft. deep, course S.W.  
Begin abrupt ascent over solid sandstone.
- 40.00 Point for cor. falls on a smooth sandstone floor.  
I cut a cross (X), at exact point for  $\frac{1}{4}$  sec.cor., mark  $\frac{1}{4}$  on W.side of cross, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.  
Pits impracticable.
- 56.00 Sandstone ridge, 200 ft. above  $\frac{1}{4}$  sec.cor., bears N.E. and S.W.  
Begin abrupt descent along steep west slope.
- 71.00 Head of hollow, course S.W.  
Begin abrupt ascent.
- 80.00 Set a sandstone, 24x10x5 ins., 18 ins. in the ground, for cor. of secs. 35-26-35 and 36, marked with 1 notch on S.

## Subdivisions of T.23 S., R.17 E.

## CHAINS

- and N.edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Land, mountainous.  
 Soil, sandy and rocky, 4th. rate.  
 No timber.  
 Mountainous land on 80.00 chs.
- 
- Fast, on a random line, bet. secs. 25 and 36.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.92 Intersect E. bdy. of Tp., 7 lks. S. of the reestablished cor. of secs. 25-30-31 and 36, heretofore described.  
 Thence I run  
 S.89°57'W., on a true line,  
 Bet. secs. 25 and 36.
- Ascend abruptly over solid sandstone ledges.
- 29.00 Sandstone ridge, 200 ft. above sec. cor., bears N. and S.  
 Begin abrupt descent over broken sandstone ledges.
- 39.00 Point for cor. falls on a smooth sandstone ledge.  
 I cut a cross (X), at exact cor. point for  $\frac{1}{4}$  sec. cor., mark  $\frac{1}{4}$  on N. side of cross, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
 Pits impracticable.
- 52.00 Hollow, 250 ft. below ridge, course S.W.  
 Abrupt ascent.
- 78.00 Sandstone ridge, bears N. and S.  
 Thence along steep south slope.
- 79.97 The cor. of secs. 25-26-35 and 36.  
 Land, mountainous.  
 Soil, rocky, 4th. rate.  
 No timber.  
 Mountainous land on 79.92 chs.
-

Subdivisions of T. 23 S., R. 17 E.

CHAINS

N. 0° 01' W., bet. secs. 25 and 26.

Ascend abruptly over rocky land.

1.25 Rocky ridge, bears E. and W.

Abrupt descent.

14.50 Hollow, 200 ft. below ridge, course N.W.

Begin abrupt ascent.

21.20 Rocky spur, projects W.

Point for  $\frac{1}{4}$  sec. cor. falls on a steep sandstone slope and cannot be set.

At this point, Set a sandstone, 15x12x3 ins., 10 ins. in the ground, for witness cor. to  $\frac{1}{4}$  sec. cor., marked W.C.  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Point for triangulation.

To determine the distance across a deep box canon, I set a flag on line, on a high spur north of the canon, then measure a base, N. 89° 59' E., 25.00 chs. to a point, from which the flag bears N. 31° 01' W.; from the flag the E. end of the base bears S. 31° 01' E.; therefore the dist. is tan. 59° 00' X base, or  $1.664 \times 25.00 = 41.60$

31  
N. 31° 01' W.  
S. 31° 01' E.  
tan. 59° 00'

25.00  
N. 89° 59' E.

36.00 Falls in triangulation, a narrow sandstone gorge, 8 chs. wide, 300 ft. deep, course N.W.

40.00 Point for  $\frac{1}{4}$  sec. cor., falls in triangulation on a smooth steep sandstone slope and cannot be set.

The triangulation 41.60 added to 21.20 gives

62.80 Sandstone spur, projecting N.W.

Descend over solid sandstone along steep west slope.

80.00 Point for cor. falls on a smooth sandstone floor.

I cut a cross at the exact point for cor. of secs. 23-24-25 and 26, mark 1 groove on E. and 2 grooves on S. side of cross, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

## Subdivisions of T. 23 S., R. 17 E.

CHAINS	From this cor. U.S.L.M. No. 3, which is a cottonwood post 7 ins. sq., projecting 5 ft. from a conical mound of stone, 6 ft. base, and 3 ft. high, marked as described by the or general, bears S. 66° 41' W., 11.88 chs. dist.
	This U.S.L.M. No. 3 is set on top of a sandstone knoll, about 75 ft. high, in the bottom of a hollow, 200 ft. deep, course N.
	Land, mountainous.
	Soil, rocky, 4th. rate.
	No timber.
	Mountainous land on 80.00 chs.
	December 7: At this cor. I set off 22° 35' S. on decl. arc, and at 11h. 51m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 48' N.
	N. 89° 57' E., on a random line, bet. secs. 24 and 25.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. bdy. of Tp., 3 lks. S. of the cor. of secs. 19-24-25 and 30, heretofore described.
	Thence I run
	S. 89° 56' W., on a true line,
	Bet. secs. 24 and 25.
	Ascend abruptly over rocky land.
8.50	Rocky spur, projects N.
	Abrupt descent.
14.00	Hollow, 150 ft. deep, course N.
	Abrupt ascent.
26.00	Rocky ridge, bears N. and S.
	Abrupt descent, over solid sandstone.
39.98	Point for cor. falls on smooth sandstone floor.
	I cut a cross (X) at exact point for $\frac{1}{4}$ sec. cor., mark + on N. side of cross, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.

Subdivisions of T.23 S., R.17 E.

CHAINS

- 57.00 Hollow, 250 ft. deep, course N.W.  
Abrupt ascent over solid sandstone.
- 66.00 Sandstone spur, projects N.W.  
Abrupt descent over solid sandstone.
- 72.50 Hollow, 200 ft. deep, course N.W.  
Abrupt ascent over solid sandstone.
- 77.00 Sandstone spur, projects N.  
Abrupt descent over solid sandstone.
- 79.96 The cor. of secs. 23-24-25 and 26.  
Land, mountainous.  
Soil, rocky, 4th. rate.  
No timber.  
Mountainous land on 79.96 chs.

N. 0°01' W., bet. secs. 23 and 24.

- Descend abruptly over solid sandstone.
- 24.00 Hollow, 250 ft. below sec. cor. course N.E.  
Leave sandstone ledges, begin abrupt ascent over sand.
- 32.00 Sand spur, projects E.  
Abrupt descent.
- 40.00 Bend in same hollow, 200 ft. deep, course from S.E. to N.E.  
Set a sandstone, 20x18x7 ins., 15 ins. in the ground, for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{2}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- Ancend.
- 50.00 Sand spur, projects E.  
Descend.
- 59.50 Same hollow, 200 ft. deep, course N.W.  
Begin abrupt ascent over solid sandstone.
- 64.00 Sandstone spur, projects W.  
Abrupt descent.
- 79.80 Hollow, 250 ft. deep, course S.W.  
Ancend.

## Subdivisions of T.23 S., R.17 E.

## CHAINS

- 80.00 Set a quartzite stone, 20x8x4 ins., 15 ins. in the ground, for cor. of secs. 13-14-23 and 24, marked with 3 notches on S. and 1 notch on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Land, mountainous.  
 Soil, sandy and rocky, 4th. rate.  
 No timber.  
 Mountainous land on 80.00 chs.

December 7, 1905.

- December 8: At 7h.52m., a.m., l.m.t., I set off  $38^{\circ}49'N.$   
 on lat. arc,  $22^{\circ}38'S.$  on decl. arc, and determine a meridian with the solar at the cor. of secs. 13-14-23 and 24.  
 Thence I run  
 $N.89^{\circ}56'E.$ , on a random line, bet. secs. 13 and 24.  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.08 Intersect E. bdy. of Tp., 12 lks. N. of the cor. of secs. 13-18-19 and 24, heretofore described.  
 Thence I run  
 $N.89^{\circ}59'W.$ , on a true line,  
 Bet. secs. 13 and 24.  
 Ascend abruptly over broken sandstone ledges.  
 3.40 Sandstone ridge, bears N.W. and S.E.  
 Begin abrupt descent over broken sandstone ledges.  
 36.00 Hollow, 250 ft. below ridge, course S.  
 Abrupt ascent.  
 40.04 Set a sandstone, 20x8x8 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 Pits impracticable.  
 65.50 Rocky ridge, bears N. and S.  
 Abrupt descent.  
 78.90 Hollow, 250 ft. deep, course S.W.

## Subdivisions of T.23 S., R.17 E.

## CHAINS

Ascend.

80.08 The cor. of secs. 13-14-23 and 24.

Land, mountainous.

Soil, rocky, 4th. rate.

No timber.

Mountainous land on 80.08 chs.

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N.0°01'W., bet. secs. 13 and 14.

Ascend abruptly over sandstone ledges.

16.00 Sandstone, ridge, bears N.E. and S.W.

Begin abrupt descent over broken sandstone ledges.

39.50 Hollow, 200 ft. below, ridge, course W.

Begin abrupt ascent.

40.03 On a shelf 150 ft. above bottom of hollow.

Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

46.20 Rocky spur, projects W.

Descend.

50.50 Begin abrupt descent over broken sandstone ledges, bearing N.E. and S.W.

71.00 Hollow, 250 ft. deep, course N.W.

Abrupt ascent.

20.00 Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for cor. of secs. 11-12-13 and 14, marked with 4 notches on S. and 1 notch on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 4th. rate.

No timber.

Mountainous land on 80.00 chs.

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## Subdivisions of T. 23 S., R. 17 E.

CHAINS	S. 89° 59' E., on a random line, bet. secs. 12 and 13.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect E. bdy. of Tp., 10 lks. N. of the cor. of secs. 7-12-13 and 18, heretofore described.
	Thence I run
	N. 89° 55' W., on a true line,
	Bet. secs. 12 and 13.
	Ascend over sandy land, through dense artemisia.
40.02	Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, dig pits, 18x18x12 ins., E. and W. of stone 3 ft. dist., and raise a mound of earth $2\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high N. of cor.
55.00	Ridge, bears N. and S.
	Descend.
67.50	Begin abrupt descent over broken sandstone ledges, bearing N. and S.
80.04	The cor. of secs. 11-12-13 and 14.
	Land, mountainous.
	Soil, sandy and rocky, 3rd. and 4th. rate.
	No timber.
	Mountainous land or dense undergrowth on 80.04 chs.
	December 8: At this cor. I set off 22° 42' S., on decl. arc, and at 11h. 52m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 50' N.
	N. 0° 01' W., bet. secs. 11 and 12.
	Ascend abruptly over broken sandstone ledges.
2.50	Rocky spur, projects W.
	Abrupt descent.
14.00	Hollow, 200 ft. deep, course S.W.
	Abrupt ascent.
25.00	Top of abrupt ascent, bears E. and W.
	Gradual ascent.
32.00	Rocky ridge, bears E. and W.
	Abrupt descent.

Subdivisions of T. 23 S., R. 17 E.

## CHAINS

40.00 Set a sandstone, 26x10x5 ins., 19 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

47.00 Hollow, 100 ft. deep, course N.W.

Ascend.

51.00 Ridge, bears N.W. and S.E.

Descend.

74.70 Road to Little Grande, bears E. and W.

79.75 Hollow, 75 ft. deep, course N.W.

Ascend.

80.00 Set a sandstone, 15x12x10 ins., 10 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked with 5 notches on S. and 1 notch on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

S.  $89^{\circ}55' E.$ , on a random line, bet. secs. 1 and 12.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.08 Intersect E. bdy. of Tp., 14 lks. N. of the reestablished cor. of secs. 1-6-7 and 12, heretofore described.

Thence I run

N.  $89^{\circ}49' W.$ , on a true line,

Bet. secs. 1 and 12.

Descend abruptly over rocky land.

1.75 Hollow, 100 ft. deep, course N.W.

Ascend.

6.00 Rocky spur, projects N.W.

Abrupt descent.

19.10 Road to Little Grande, bears N.E. and S.W.

21.00 Hollow, 200 ft. deep, course from N.E. to W.

## Subdivisions of T. 23 S., R. 17 E.

- CHAINS Thence along hollow.
- 34.50 Junction of hollow from S.E.  
Leave hollow, course N.W. Ascend.
- 40.04 Set a sandstone, 18x6x4 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.
- 67.00 Ridge, bears N.W. and S.E.  
Descend.
- 80.08 The cor. of secs. 1-2-11 and 12.  
Land, mountainous.  
Soil, rocky, 3rd. rate.  
No timber.  
Mountainous land on 80.08 chs.
- 
- N. 0° 01' W., on a random line, bet. secs. 1 and 2.
- 40.00 Set t-mp.  $\frac{1}{4}$  sec.cor.
- 82.66 Intersect N.bdy. of Tp., 7 lks. W. of the reestablished cor. of secs. 1-2-35 and 36, heretofore described.  
Thence I run  
S. 0° 02' W., on a true line  
Bet. secs. 1 and 2.  
Descend abruptly over sandstone boulders and broken sandstone ledges.
- 2.00 Hollow, 150 ft. deep, course S.W.  
Abrupt ascent.
- 8.25 Rocky spur, projects S.W.  
Abrupt descent.
- 15.00 Hollow, 150 ft. deep, course S.W.  
Abrupt ascent.
- 19.00 Rocky ridge, bears N.E. and S.W.  
Abrupt descent.
- 42.66 Set a sandstone, 24x8x5 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

Pits impracticable.

From this cor. U.S.L.M. No. 2, which is a pine post, 8 ins. sq., projecting 4 ft. from a conical mound of stone, 6 ft. base, 3 ft. high, marked as described by the surveyor general, bears  $N43^{\circ}07'W.$ , 13.61 chs. dist.

47.50 Foot of abrupt descent, bears E. and W.

Begin gradual descent through dense artemisia.

69.00 Hollow, 200 ft. deep, course N.W.

Ascend.

81.90 Spur, projects W.

Descend.

82.66 The cor. of secs. 1-2-11 and 12.

- Land, mountainous.

Soil, sandy and rocky, 3rd. and 4th. rate.

No timber. Undergrowth artemisia.

Mountainous land on 82.66 chs.

December 8, 1905.

December 9: At 7h.52m., a.m., l.m.t., I set off  $38^{\circ}46'N.$  on lat. arc,  $22^{\circ}44'S.$  on decl. arc, and determine a meridian with the solar, at the reestablished cor. of secs. 2-3-34 and 35, heretofore described, on the S.bdy. of the Tp.

Thence I run

$N.0^{\circ} 01'W.$ , bet. secs. 34 and 35.

Ascend over sandy and rocky land.

7.00 Begin abrupt ascent over solid sandstone, bearing E. and W.

14.00 Sandstone ridge, bears N.E. and S.W.

Descend over undulating solid sandstone.

34.00 Begin abrupt descent over sandstone ledges, bearing E. and W.

40.00 Set a sandstone,  $15 \times 10 \times 4$  ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

41.75 Hollow, 250 ft. deep, course W.

Abrupt ascent

## Subdivisions of T.23 S., R.17 E.

## CHAINS:

- 44.50 Sandstone spur, projects W.  
Abrupt descent.
- 47.00 Hollow, 250 ft. deep, course S.W.  
Abrupt ascent.
- 80.00 Point for cor. falls on a sandstone boulder, 8x4x3 ft.  
above ground; I cut a cross (X), at exact point for cor.  
of secs. 26-27-34 and 35, mark 1 groove on S. and 2 grooves  
on E. sides of cross and raise a mound of stone 2 ft. base,  
 $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
This cor. is set at the foot of a precipice 100 ft. high,  
bearing N. and W.  
Land, mountainous.  
Soil, rocky, 4th. rate.  
No timber.  
Mountainous land, 80.00 chs.
- 
- East, on a random line, bet. secs. 26 and 35.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.06 Intersect N. and S. line, 3 lks. S. of the cor. of secs.  
25-26-35 and 36.  
Thence I run  
S.  $89^{\circ}50'W.$ , on a true line,  
Bet. secs. 26 and 35.  
Ascend along steep rocky south slope.
- 2.25 Rocky ridge, bears N.E. and S.W.  
Begin abrupt descent over solid sandstone.
- 40.03 Point for cor. falls on a smooth sandstone floor; I cut a  
cross (X), at exact point for  $\frac{1}{4}$  sec. cor., mark  $\frac{1}{4}$  on N. side  
of cross, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  
W. of cor.  
Pits impracticable.
- 61.00 Hollow, 250 ft. below ridge, course S.  
Ascend over solid sandstone.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

72.20 Sandstone spur, projects S.

Descend along steep south slope.

80.06 The cor. of secs. 26-27-34 and 35.

Land, mountainous.

Soil, rocky, 4th. rate.

No timber.

Mountainous land on 80.06 chs.

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N. 0° 01' W., bet. secs. 26 and 27.

To pass a solid sandstone bluff, on line, about 14.00 chs. square and 100 ft. high with perpendicular sides, I offset E., 7.80 chs., thence N. 0° 01' W., 14.20 chs., thence W., 7.80 chs., to line bet. secs. 26 and 27, thence N. 0° 01' W., from

14.20 N. side of square bluff, just described.

Descend abruptly over solid sandstone.

25.00 Foot of abrupt descent.

Begin gradual descent over solid sandstone.

40.00 Set a sandstone, 20x8x5 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

47.50 Hollow, 150 ft. deep, course N.W.

Ascend.

60.20 Top of spur, projects N.W.

Descend.

63.50 Hollow, 100 ft. deep, course N.W.

Ascend.

80.00 Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for cor. of secs. 22-23-26 and 27, marked with 2 notches on S. and E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 4th. rate.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

No timber.

Mountainous land on 40,000 chs.

December 9: At this cor. I set off 22°48' S., on decl. arc, and at 11h.52m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°48' N.

N. 89°59' E., on a random line, bet. secs. 23 and 26.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.10 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 23-24-25 and 26.

Thence I run

S. 89°56' W., on a true line,

Bet. secs. 23 and 26.

Descend abruptly over solid sandstone.

9.50 Hollow, 250 ft. deep, course N.

Abrupt ascent.

12.00 Sandstone spur, projects N.E.

Abrupt descent.

16.00 Hollow, 250 ft. deep, course N.E.

Abrupt ascent.

32.00 Sandstone ridge, bears N. and S.

Abrupt descent.

36.00 Foot of abrupt descent, bears N. and S.

Leave sandstone ledges, over sandy flat.

40.05 Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

41.00 Leave sand flat, begin abrupt ascent over solid sandstone ledges, bearing N. and S.

47.50 Sandstone ridge, bears N.W. and S.E.

Abrupt descent.

53.50 Hollow, 150 ft. deep, course S.

Abrupt ascent.

60.90 Sandstone spur, projects S.W.

## Subdivisions of T.23 S., R.17 F.

## CHAINS

Abrupt descent.

77.00 Foot of abrupt descent, bears N.W. and S.E.

Gradual descent.

80.10 The cor. of secs. 22-23-26 and 27.

Land, mountainous.

Soil, sandy and rocky, 4th. rate.

No timber.

Mountainous land on 80.10 chs.

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N.0°01'W., bet. secs. 22 and 23.

Ascend over solid sandstone.

4.00 Begin abrupt ascent, bears N.W. and S.E.

12.00 Top of abrupt ascent.

Gradual ascent over solid sandstone.

27.50 Sandstone spur, projects w.

Gradual descent over undulating solid sandstone.

40.00 Point for cor. falls on a smooth sandstone floor; I cut a cross (X), at exact point for  $\frac{1}{4}$  sec. cor., mark  $\frac{1}{4}$  on W. side of cross, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

58.00 Begin abrupt descent over sandstone ledges, bearing N.E. and S.W.

80.00 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked with 3 notches on S. and 2 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 4th. rate.

No timber.

Mountainous land on 80.00 chs.

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## Subdivisions of T.23 S., R.17 E.

CHAINS	
	N. $89^{\circ}56' E.$ , on a random line, bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.98	Intersect N. and S. line, 14 1/2 ft. N. of the cor. of secs. 13-14-23 and 24.
	Thence I run N. $89^{\circ}58' W.$ , on a true line, Bet. secs. 14 and 23.
	Ascend over solid sandstone.
12.50	Sandstone spur, projects S.W.
	Begin abrupt descent over solid sandstone.
21.00	Hollow, 300 ft. below spur, course N.
	Leave sandstone ledges, bear N. and S.
	Ascend over sandy land.
39.50	Begin abrupt ascent over smooth sandstone ledges, bearing N. and S.
39.99	Point for cor. falls on a smooth sandstone floor; I cut a cross (X), at exact point for $\frac{1}{4}$ sec. cor., mark $\frac{1}{4}$ on N. side of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
68.00	Sandstone spur, projects N.
	Begin abrupt descent.
79.98	The cor. of secs. 14-15-22 and 23.
	Land, mountainous.
	Soil, rocky and sandy, 4th. rate.
	No timber.
	Mountainous land on 79.98 chs.
	December 9, 1905.
	December 10: At 7h.53m., a.m., l.m.t., I set off $38^{\circ}49' N.$ on lat. arc, $22^{\circ}49' S.$ on decl. arc, and determine a meridian with the solar, at the cor. of secs. 14-15-22 and 23.
	Thence I run N. $0^{\circ}01' W.$ , bet. secs. 14 and 15.
	Descend abruptly over sand dunes and solid sandstone.

## Subdivisions of T. 23 S., R. 17 E.

- NS  
 31.50 Enter bottom of wide hollow, 200 ft. deep, course S.W.  
 36.00 Leave hollow, Ascend, over sandy land.  
 40.00 Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 47.00 Begin abrupt ascent over rocky land, bears N.E. and S.W.  
 63.75 Rocky spur, projects E.  
 Descend.  
 67.00 Hollow, 200 ft. deep, course S.E.  
 Begin abrupt ascent over broken sandstone ledges.  
 71.90 Rocky spur, projects W.  
 Abrupt descent.  
 79.50 Hollow, 100 ft. deep, course W.  
 Ascend along steep west slope.  
 80.00 Set a quartzite stone, 20x12 x4 ins., 15 ins. in the ground, for cor. of secs. 10-11-14 and 15, marked with 4 notches on S. and 2 notches on E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Land, mountainous.  
 Soil, sandy and rocky, 4th. rate.  
 No timber.  
 Mountainous land on 80.00 chs.

S. 89° 58' E., on a random line, bet. secs. 11 and 14.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.06 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 11-12-13 and 14.  
 Thence I run

N. 89° 56' W., on a true line,  
 Bet. secs. 11 and 14.

- Descend abruptly over broken sandstone ledges.  
 16.00 Hollow, 150 ft. deep, course S.W.  
 Abrupt ascent.

## Subdivisions of T. 23 S., R. 17 E.

CHAINS	
19.00	Spur, projects S.W. Descend.
22.00	Hollow, 150 ft. deep, course S.W. Abrupt ascent.
33.60	Rocky spur, projects S. Abrupt descent.
38.00	Hollow, 150 ft. deep, course S.W. Leave sandstone ledges, ascend over sand.
40.03	Set a sandstone, 24x8x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
65.00	Begin abrupt ascent over broken sandstone ledges, bearing N. and S.
74.50	Rocky spur, projects S. Abrupt descent.
80.06	The cor. of secs. 10-11-14 and 15. Land, mountainous. Soil, sandy and rocky, 4th. rate. No timber. Mountainous land on 80.06 chs.

N. 0°01' W., bet. secs. 10 and 11.

9.50	Sandstone ridge, bears N.W. and S.E. Abrupt descent.
14.00	Hollow, 150 ft. deep, course S.E. Abrupt ascent.
21.00	Sandstone ridge, bears N.W. and S.E. Descend.
40.00	Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

47.70 Road to Little Grande, bears N.E. and S.W.

64.00 Hollow, 100 ft. deep, course W.

Ascend.

66.00 Sandstone spur, projects W.

Begin abrupt descent over broken sandstone ledges.

80.00 Set a sandstone, 30x8x6 ins., 23 ins. in the ground, for cor. of secs. 2-3-10 and 11, marked with 5 notches on S. and 2 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

See Corrected  
Notes Book  
Page 2

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

No timber.

Mountainous land on 80.00 chs.

December 10: At this cor., I set off  $22^{\circ}53'$  S. on decl. arc, and at 11h.53m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ}50'N.$

S.  $89^{\circ}56'E.$ , on a random line, bet. secs. 2 and 11.40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. and S. line, 5 lbs. N. of the cor. of secs. 1-2-11 and 12.

Thence I run

N.  $89^{\circ}54'W.$ , on a true line,

Bet. secs. 2 and 11.

Descend over rocky land.

.75 Hollow, 50 ft. deep, course N.W.

Ascend.

2.25 Spur, projects N.

Descend.

4.50 Hollow, 100 ft. deep, course N.

Ascend.

14.00 Begin abrupt ascent over broken sandstone ledges, bearing N. and S.

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## Subdivisions of T. 23 S., R. 17 E.

CHAINS	
31.00	Sandstone spur, projects N. Abrupt descent.
35.00	Hollow, 150 ft. deep, course N. Abrupt ascent.
40.01	Set a sandstone, 28x12x3 ins., 21 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
41.00	Sandstone spur, projects N. Abrupt descent.
64.00	Hollow, 150 ft. deep, course N. Abrupt ascent.
72.00	Sandstone spur, projects N. Abrupt descent over broken sandstone ledges.
80.02	The cor. of secs. 2-3-10 and 11. Land, mountainous. Soil, rocky, 3rd. and 4th. rate. No timber. Mountainous land on 80.02 chs.
	N. 0°01' W., on a random line, bet. secs. 2 and 3.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
82.47	Intersect N. bdy. of Tp., 5 l's. W. of the reestablished cor. of secs. 2-3-34 and 35, heretofore described. Thence I run S. 0°01' W., on a true line, Bet. secs. 2 and 3.
5.00	Descend abruptly over broken sandstone ledges. Foot of ledges, bearing E. and W. Begin gradual descent over sandy land, through dense artemisia.
25.00	A knoll, 100 ft. high, on line.
40.00	Bottom of wide hollow, 200 ft. deep, course N.W. Gradual ascent.

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## Subdivisions of T.23 S., R.17 E.

## CHAINS

- 42.47 Set a Limestone, 18x12x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

Pits impracticable.

- 56.00 Begin abrupt ascent over broken sandstone ledges, bearing E. and W.

- 72.00 Sandstone spur, projects E.

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Notes Book 1  
Page 3

- 79.00 Hollow, 150 ft. deep, course N.E.

Ascend.

- 82.47 The cor.of secs.2-3-10 and 11.

Land, mountainous.

Soil, sandy bottom on 51.00 chs., 2nd. rate.

balance, rocky, 4th. rate.

No timber.

Mountainous land or dense undergrowth on 82.47 chs.

December 10, 1905.

December 11: At 7h.53m., a.m., l.m.t., I set off  $38^{\circ}46'N.$  on lat.arc,  $22^{\circ}55'S.$  on decl.arc, and determine a meridian with the solar, at the reestablished cor.of secs.3-4-33 and 34, heretofore described, on the S.bdy. of the Tp.

Thence I run

$N.0^{\circ}02'W.$ , bet.secs.33 and 34.

Ascend over rocky land.

- 13.00 Begin abrupt ascent over solid sandstone, bearing E. and W.

- 18.50 Sandstone ridge, bears E. and W.

Abrupt descent over solid sandstone.

- 27.00 Foot of sandstone ledges, bear E. and W.

Descend over sandy land.

- 37.00 Hollow, 100 ft. deep, course N.W.

Ascend.

- 40.00 Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for  $\frac{1}{4}$

## Subdivisions of T.23 S., R.17 E.

## CHAINS

- sec.cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- 45.00 Spur, projects N.W.  
Descend.
- 50.50 Hollow, 100 ft. deep, course N.W.  
Ascend.
- 76.00 Spur, projects W.  
Descend.
- 80.00 Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for cor. of secs. 27-28-33 and 34, marked with 1 notch on S. and 3 notches on E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, sandy and rocky, 4th. rate.  
No timber.  
Mountainous land on 80.00 chs.
- 
- East, on a random line, bet. secs. 27 and 34.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.10 Intersect N. and S. line. 5 lls. S. of the cor. of secs. 20--27  
34 and 35.  
Thence I run  
S. 82° 58' W., on a true line,  
Bet. secs. 27 and 34.  
Descend abruptly over solid sandstone, along steep south slope.
- 35.00 Foot of abrupt descent, bears N.E. and S.W.  
Descend over solid sandstone,
- 40.05 Point for cor. falls on a smooth sandstone floor; I cut a cross (X), at exact point for  $\frac{1}{4}$  sec.cor., mark  $\frac{1}{4}$  on N. side of cross, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.

## Subdivisions of T.23 S., R.17 E.

## CHAINS

Descend over sand dunes on solid sandstone.

80.10 The cor. of secs. 27-28-33 and 34.

Land, mountainous.

Soil, sandy and rocky, 4th. rate.

No timber.

Mountainous land on 80.10 chs.

N.  $0^{\circ}02'$  W., bet. secs. 27 and 28.

Descend over sandy land.

11.00 Hollow, 75 ft. deep, course W.

Ascend.

18.50 Sand spur, projects W.

Descend.

24.00 Foot of descent, bears E. and W.

Over rolling land and sand dunes.

40.00 Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

80.00 Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for cor. of secs. 21-22-27 and 28, marked with 2 notches on S. and 3 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, sand dunes averaging 50 ft. high.

Soil, sandy, 4th. rate.

No timber.

Mountainous land on 80.00 chs.

December 11: At this cor. I set off  $22^{\circ}59'$  S. on decl. arc, and at 11h.53 m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ}48'$  N.

N.  $89^{\circ}58'$  E., on a random line, bet. secs. 22 and 27.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.04 Intersect N. and S. line, 12 lks. N. of the cor. of secs.

## Subdivisions of T. 23 S., R. 17 E.

CHAINS	22-23-26 and 27.  Thence I run  N. 89° 57' W., on a true line, Bet. secs. 22 and 27.  Descend over sandy land.
8.00	Foot of descent, bears N.W. and S.E.  Over rolling land and sand dunes.
40.02	Set a sandstone, 24x11x4 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.  Pits impracticable.
80.04	The cor. of secs. 21-22-27 and 28.  Land, sand dunes, averaging 50 ft. high.  Soil, sandy, 4th. rate.  No timber.  Mountainous land on 80.04 chs.
	N. 0° 02' W., bet. secs. 21 and 22.  Descend gradually over sandy land.
34.70	Enter hollow, 100 ft. deep, course S.W.
39.75	Leave hollow, course S.W.  Begin abrupt ascent over rocky land.
40.00	Set a quartzite stone, 18x14x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.  Pits impracticable.
80.00	Set a quartzite stone, 15x10x5 ins., 10 ins. in the ground, for cor. of secs. 15-16-21 and 22, marked  23 S., on N.E., and  17 E. on S.E. face, with 3 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.  Pits impracticable.  Land, mountainous.  Soil, sandy and rocky, 4th. rate.  No timber.

Subdivisions of T.23 S., R.17 E.

HAINS

Mountainous land on 80.00 chs.

S. $89^{\circ}57' E.$ , on a random line, bet. secs. 15 and 22.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.06 Intersect N. and S. line, 17 lks. S. of the cor. of secs.  
14-15-22 and 23.

Thence I run

S. $89^{\circ}56' W.$ , on a true line,

Bet. secs. 15 and 22.

Descend abruptly over sand dunes, on solid sandstone.

13.00 Foot of abrupt descent, bears N. and S.

Descend over rolling land.

36.00 Enter hollow, 150 ft. deep, course S.W.

38.75 Leave hollow, course S.W.

Begin abrupt ascent, over rocky land.

40.03 Set a sandstone, 30x12x4 ins., 22 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

80.06 The cor. of secs. 15-16-21 and 22.

Land, mountainous.

Soil, sandy and rocky, 4th. rate.

No timber.

Mountainous land on 80.06 chs.

December 11, 1905.

December 12: At 7h.54m., a.m., l.m.t., I set off  $38^{\circ}49' N.$   
on lat.arc,  $23^{\circ}00' S.$  on decl.arc, and determine a meridian  
with the solar, at the cor. of secs. 15-16-21 and 22.

Thence I run

N. $0^{\circ}02' W.$ , bet. secs. 15 and 16.

Ascend over rocky land.

32.00 Begin abrupt ascent over broken sandstone ledges, bearing  
E. and W.

## Subdivisions of T.23 S., R.17 E.

## CHAINS

- 40.00 Set a sandstone, 18x15x4 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- 46.30 Rocky spur, 250 ft. above sec. cor., projects E.  
Abrupt descent.
- 53.00 Hollow, 150 ft. deep, course S.E.  
Abrupt ascent.
- 62.00 Ridge, bears N.E. and S.W.  
Descend.
- 67.30 Road to Little Grande, bears N.E. and S.W.
- 79.60 Hollow, 50 ft. deep, course W.  
Ascend.
- 80.00 Set a limestone, 18x12x5 ins., 12 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked with 4 notches on S. and 3 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
From this cor. U.S.L.M. No. 1, Wheeler Desert Mining District which is a pine post, 8 ins. sq., projecting 5 ft. from a conical mound of stone, 6 ft. base, 3 ft. high, marked as described by the surveyor general, bears S.34°10'W., 21.40 chs. dist.  
A frame cabin, 20x20 ft. square, belonging to the Colorado Fuel and Iron Co., used as a miner's bunk house, unoccupied at time of survey, bears S.60°30'E., 17.90 chs.  
Land, mountainous.  
Soil, rocky, 3rd. rate.  
No timber.  
Mountainous land on 80.00 chs.

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Subdivisions of T. 23 S., R. 17 E.

N. $89^{\circ}56' E.$ , on a random line, bet. secs. 10 and 15.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.04 Intersect N. and S. line, 16 lks. N. of the cor. of secs. 10-11-14 and 15.

Thence I run

N. $89^{\circ}57' W.$ , on a true line,

Bet. secs. 10 and 15.

Descend abruptly over broken sandstone ledges.

1.50 Hollow, 150 ft. deep, course S.

Abrupt ascent.

25.00 Sandstone spur, projects S.

Abrupt descent.

36.50 Hollow, 200 ft. deep, course S.

Abrupt ascent.

40.02 Point for  $\frac{1}{4}$  sec. cor. falls on a steep slope and cannot be set.

43.20 Rocky spur, projects N.E.

Set a sandstone, 20x14x6 ins., 15 ins. in the ground, for witness cor. to  $\frac{1}{4}$  sec. cor., marked W.C.  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor. Pits impracticable.

Descend.

46.00 Hollow, 100 ft. deep, course N.E.

Ascend.

60.00 Ridge, bears N.E. and S.W.

Descend.

67.00 Road to Little Grande, bears N.E. and S.W.

80.04 The cor. of secs. 9, 10, 15, and 16.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.04 chs.

Subdivisions of T. 23 S., R. 17 E.

CHAINS	N. 0° 02' E., bet. secs. 9 and 10.
	Ascend over rocky land.
22.40	Sandstone ridge, bears N.W. and S.E.
	Descend over rocky land.
40.00	Set a sandstone, 24x12x3 ins., 18 ins. in the ground, for sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
61.50	Hollow, 100 ft. deep, course N.E.
	Ascend.
67.70	Rocky spur, projects N.E.
	Descend.
71.75	Hollow, 100 ft. deep, course N.E.
	Ascend.
77.00	Rocky spur, projects N.E.
	Descend.
78.00	Road to Green River, bears N.E. and S.W.
80.00	Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for cor. of secs. 3-4-9 and 10, marked with 5 notches on S. and 3 notches on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	No timber.
	Mountainous land on 80.00 chs.
	December 12: At this cor. I set off 23° 03' S. on decl. sec., and at 11h.54m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 50' N.
	S. 89° 57' E., on a random line, bet. secs. 3 and 10.
40.00	Set temp. $\pm$ sec. cor.
80.08	Intersect N. and S. line, 10 lks. N. of the cor. of secs. 2-3-10 and 11.
	Thence I run

## Subdivisions of T.23 S., R.17 E.

- CHAINS      N.89°53'W., on a true line,  
                 Bet.secs.3 and 10.  
                 Descend over broken and rocky land.
- 12.75 Hollow, 150 ft. deep, course N.E.  
                 Abrupt ascent.
- 21.00 Rocky spur, projects N.  
                 Abrupt descent.
- 32.00 Hollow, 150 ft. deep, course N.E.  
                 Abrupt ascent.
- 40.04 Rocky ridge, bears N. and S.  
                 Point for cor. falls on a smooth sandstone ledge; I cut a cross (X), at exact point for  $\frac{1}{4}$  sec.cor., mark  $\frac{1}{4}$  on N.side of cross, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, *See Correctif Notes Book 1 Pages 3 and 4*  
                 N. of cor.  
                 Pits impracticable.  
                 Descend abruptly over broken sandstone ledges.
- 63.00 Hollow, 150 ft. deep, course N.E.  
                 Abrupt ascent.
- 77.00 Rocky spur, projects N.  
                 Descend.
- 77.50 Road to Green River, bears N.E. and S.W.
- 80.08 The cor.of secs.3, 4, 9. and 10.  
                 Land, mountainous.  
                 Soil, rocky, 3rd. rate.  
                 No timber.  
                 Mountainous land on 80.08 chs.
- 
- N.0°02'W., on a random line, bet.secs.3 and 4.  
 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 82.22 Intersect N.bdy.of Tp., 3 lks.W. of the reestablished cor.of secs.3-4-33 and 34, heretofore described.  
                 Thence I run  
                 S.0°01'E., on a true line,  
                 Bet.secs.3 and 4.

## Subdivisions of T. 23 S R. 17 E

CHAINS	
	Ascend gradually over sandy land, through dense artemisia.
22.00	Begin abrupt ascent over broken sandstone ledges, bearing N.W. and S.E.
29.00	Sandstone spur, projects E. Descend.
30.00	Hollow, 100 ft. deep, course E. Ascend.
35.00	Sandstone spur, projects E. Descend.
38.50	Hollow, 100 ft. deep, course E. Ascend.
41.00	Sandstone spur, projects E. Descend over solid sandstone.
42.22	Point for cor. falls on a sandstone shelf; I cut a cross (X), at exact point for $\frac{1}{4}$ sec.cor., mark $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
56.25	Hollow, 200 ft. deep, course N.E. Abrupt ascent over rocky land.
82.22	The cor. of secs. 3-4-9 and 10. Land mountainous. Soil, sandy bottom on 22.00 chs., 2nd. rate. balance rocky, 3rd. rate. No timber. Mountainous land or dense undergrowth on 82.22 chs.

X  
December 12, 1905.

December 13: At 7h. 54m., a.m., l.m.t., I set off  $38^{\circ}46'N.$   
on lat.arc,  $23^{\circ}04'S.$  on decl.arc, and determine a meridian  
with the solar, at the reestablished cor.of secs. 4-5-32  
and 33, heretofore described, on the S.bdy. of the Tp.  
Thence I run

$N.0^{\circ}03'W.$ , bet. secs. 32 and 33.

Descend over broken sandstone ledges.

6.75 Hollow, 100 ft. deep, course S.W.

## Subdivisions of T. 23 S., R. 17 E.

- CHAINS Ascend.
- 14.70 Ridge, bears E. and W.  
Leave ledges, descend over sandy land.  
Through dense artemisia.
- 23.00 Foot of descent, over rolling land.
- 40.00 Set a sandstone, 15x15x6 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- 80.00 Set a sandstone, 20x10x8 ins., 15 ins. in the ground, for cor. of secs. 28-29-32 and 33, marked with 1 notch on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous and rolling.  
Soil, rocky on 14.70 chs., 4th. rate.  
balance, sandy, 3rd. rate.  
No timber.  
Mountainous land on 80.00 chs.
- 
- East, on a random line, bet. secs. 28 and 33.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 79.94 Intersect N. and S. line, 9 lks. S. of the cor. of secs. 27-28-33 and 34.  
Thence I run  
S. 89° 56' W., on a true line,  
Bet. secs. 28 and 33.  
Descend over solid sandstone.
- 12.50 Foot of descent, bears N. and S.  
Over rolling sandy land, through dense artemisia.
- 39.97 Set a sandstone, 18x12x12 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.

## Subdivisions of T. 23 S., R. 17 W.

## CHAINS

- 79.94 The cor. of secs. 28-29-32 and 33.  
 Land, rolling.  
 Soil, sandy and rocky, 3rd. rate.  
 No timber. Undergrowth artemisia.  
 Dense undergrowth on 79.94 chs.
- 
- N. 0° 03' W., bet. secs. 28 and 29.  
 Over level land and sand dunes.
- 40.00 Set a sandstone, 15x8x5 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 49.00 Begin descent.
- 56.00 Enter bottom of hollow, 100 ft. deep, course S.W.
- 66.00 Leave hollow, course S.W.  
 Ascend over sandstone ledges.
- 80.00 Set a sandstone, 15x12x7 ins., 10 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked with 2 notches on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
 Pits impracticable.  
 Land, rolling.  
 Soil, sandy and rocky, 3rd. and 4th. rate.  
 No timber.  
 Mountainous land on 31.00 chs.
- December 13: At this cor. I set off 23° 08' S. on decl. arc, and at 11h.54m., a.m., l.mt., observe the sun on the meridian, the resulting lat. is 38° 48' N.
- 
- N. 89° 56' E., on a random line, bet. secs. 21 and 28.  
 }  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.02 Intersect N. and S. line, 21 lks. N. of the cor. of secs. 21-22-27 and 28.  
 Thence I run

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## Subdivisions of T. 23 S., R. 17 E.

CHAINS

N. 89° 55' W., on a true line,

Bet. secs. 21 and 28

Gradual descent over sandy land.

32.00 Enter bottom of hollow, 150 ft. deep, course S.W.

39.00 Leave hollow, course S.W.

Ascend.

40.01 Set a sandstone, 15x9x6 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

61.00 Begin ascent over sandstone ledges, bearing N.E. and S.W.

80.02 The cor. of secs. 20-21-28 and 29.

Land, mountainous.

Soil, sandy and rocky, 3rd. and 4th. rate.

No timber.

Mountainous land on 80.02 chs.

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Pages 2-3

N. 0° 03' W., bet. secs. 20 and 21.

Ascend over sandstone ledges.

8.00 Leave sandstone ledges, bear E. and W.

Over sandy land, through dense artemisia.

27.50 Road to Green River, bears N.E. and S.W.

29.00 Ridge, bears N.E. and S.W.

Descend.

40.00 Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

45.50 Hollow, 75 ft. deep, course S.W.

Ascend.

48.00 Begin abrupt ascent over broken sandstone ledges, bearing N.E. and S.W.

74.00 Ridge, bears N.E. and S.W.

Descend.

80.00 Set a sandstone, 18x7x5 ins., 12 ins. in the ground, for cor

See Corrective  
Notes Book G  
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## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

- of secs. 16-17-20 and 21, marked with 3 notches on S., and 4 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- Land, mountainous.
- Soil, rocky, 3rd. rate.
- No timber. Undergrowth artemisia.
- Mountainous land on 80.00 chs.
- 
- S.  $89^{\circ}55' E.$ , on a random line, bet. secs. 16 and 21.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.04 Intersect N. and S. line, 14 lks. S. of the cor. of secs. 15-16-21 and 22.
- Thence I run
- S.  $89^{\circ}59' W.$ , on a true line,  
Bet. secs. 16 and 21.
- Ascend abruptly over rocky land.
- 24.00 Spur, projects S.
- Abrupt descent.
- 40.02 Set a sandstone, 15x10x4 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- Pits impracticable.
- 43.75 Hollow, 150 ft. deep, course S.W.
- Abrupt ascent.
- 47.00 Road to Green River, bears N.E. and S.W.
- 70.00 Ridge, bears N.E. and S.W.
- Descend through dense mountain rush.
- 80.04 The cor. of secs. 16-17-20 and 21.
- Land, mountainous.
- Soil, rocky, 3rd. rate.
- No timber. Undergrowth mountain rush
- Mountainous land on 80.04 chs.

December 13, 1905.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

December 14: At 7h.55m., a.m., l.m.t., I set off  $38^{\circ}49'N.$   
on lat.arc,  $23^{\circ}08'S.$  on decl.arc, and determine a meridian  
with the solar, at the cor.of secs. 16-17-20 and 21.  
Thence I run.

$N.0^{\circ}03'W.$ , betsecs. 16 and 17.

Descend through dense mountain rush.

22.00 Hollow, 100 ft. deep, course W.

Ascend.

28.45 Spur, projects W.

Abrupt descent.

40.00 Set a sandstone,  $18 \times 15 \times 3$  ins., 12 ins. in the ground, for  $\frac{1}{4}$   
sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.

48.00 Hollow, 150 ft. deep, course S.W.

Begin abrupt ascent over broken gypsum spurs.

50.00 Set a sandstone,  $20 \times 9 \times 4$  ins., 15 ins. in the ground, for  
cor.of secs. 8-9-10 and 17, marked with 4 notches on S.and  
E.edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high,  
W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky and gypsum, 3rd. rate.

No timber. Undergrowth mountain rush.

Mountainous land on 80.00 chs.

$N.29^{\circ}59'E.$ , on a random line, betsecs. 9 and 16.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

50.02 Intersect N.and S.line, 10 lbs.N. of the cor.of secs.  
9-10-15 and 16.

Thence I run

$N.29^{\circ}57'W.$ , on a true line,

Betsecs. 9 and 16.

Descend through dense artemisia, over rocky land.

50.25 Hollow, 100 ft. deep, course S.W.

## Subdivisions of T.23 S., R.17 E.

CHAINS	
	Ascend.
16.00	Road to Green River, bears N. and S.
24.00	Spur, projects S.
	Descend.
40.01	Bottom of hollow, 150 ft. deep, course from S.E. to W. Set a sandstone, 15x12x7 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Thence along hollow, course W.
42.50	Leave hollow, course N.W.
	Abrupt ascent.
63.00	Ridge, bears N.W. and S.E.
	Abrupt descent.
69.00	Hollow, 150 ft. deep, course S.
	Abrupt ascent.
80.02	The cor. of secs. 8-9-16 and 17. Land; mountainous. Soil, rocky, 3rd. rate. No timber. Undergrowth artemisia. Mountainous land on 80.02 chs.
	N. 0°03' W., bet. secs. 8 and 9.
	Ascend over rocky land.
1.50	Ridge, bears E. and W.
	Descend.
5.75	Hollow, 150 ft. deep, course N.E.
	Ascend.
8.00	Spur, projects N.E.
	Descend.
33.00	Hollow, 150 ft. deep, course N.W.
	Ascend.
40.00	Set a sandstone, 24x10x3 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

Pits impracticable.

42.00 Spur, projects W.

Descend.

54.30 Hollow, 150 ft. deep, course N.W.

Ascend over broken land.

72.25 Spur, projects W.

Descend.

74.80 Hollow, 150 ft. deep, course W.

Abrupt ascent.

79.00 Spur, projects W.

Descend.

80.00 In hollow, 25 ft. deep, course W.

Set a sandstone, 18x6x5 ins., 12 ins. in the ground, for cor. of secs. 4-5-8 and 9, marked with 5 notches on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

December 14: At this cor. I set off  $23^{\circ}12' S.$ , on decl. arc, and at 11h.55m., a.m., l.r.t., observe the sun on the meridien, the resulting lat. is  $38^{\circ}50' N.$

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S. $89^{\circ}57' E.$ , on a random line, bet. secs. 4 and 9.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.94 Intersect N. and S. line, 21 lks. S. of the cor. of secs. 3-4-9 and 10.

Thence I run

S. $89^{\circ}54' W.$ , on a true line,

Bet. secs. 4 and 9.

Descend over rocky land.

4.00 Hollow, 100 ft. deep, course N.

Ascend.

## Subdivisions of T. 23 S., R. 17 E.

CHAINS	
7.00	Rocky spur, projects N. Descend.
13.00	Hollow, 100 ft. deep, course N.E. Ascend.
19.50	Ridge, bears N.W. and S.E. Abrupt descent.
39.97	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
49.00	Hollow, 150 ft. deep, course S.W. Abrupt ascent.
56.00	Rocky spur, projects S. Descend.
59.50	Hollow, 100 ft. deep, course S. Ascend.
68.50	Rocky ridge, bears N. and S. Abrupt descent.
79.94	The cor. of secs. 4-5-8 and 9. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 79.94 chs.
	N. $0^{\circ}03'W.$ , on a random line, bet. secs. 4 and 5.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
89.40	Intersect N. bdy. of Tp., 9 lks. W. of the reestablished cor. of secs. 4-5-32 and 33, heretofore described. Thence I run S. $0^{\circ}01'W.$ , on a true line, Bet. secs. 4 and 5.
	Ascend through dense artemisia.
5.00	Ascend abruptly over broken sandstone ledges, bearing N.W. and S.E.

## Subdivisions of T. 23. S., R. 17 E.

CHAINS	
20.50	Sandstone spur, projects N.E. Abrupt descent.
26.00	Hollow, 150 ft. deep, course N.E. Abrupt ascent.
38.00	Rocky ridge, bears N.W. and S.E. Descend.
41.00	Head of hollow, course W. Ascend.
42.46	Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Pits impracticable.
68.50	Ridge, bears N.W. and S.E. Abrupt descent.
79.00	Hollow, 150 ft. deep, course S.W. Ascend.
82.00	Spur, projects S.W.
82.46	The cor.of secs.4-5-8 and 9, in hollow, 25 ft. deep, course W. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Undergrowth artemisia. Mountainous land on 82.46 chs.

December 14, 1905.

December 15: At 7h.55m., a.m., l.m.t., I set off  $38^{\circ}46'N.$  on lat.arc,  $23^{\circ}11'S.$  on decl.arc, and determine a meridian with the solar, at the reestablished cor.of secs.5-6-31 and 32, heretofore described, on the S.bdy. of the Tp.

Thence I run

N. $0^{\circ}03'W.$ , bet.secs.31 and 32.

Over bottom land, ascend gradually through dense grease-wood brush.

9.00 Leave bottom land and brush.

## Subdivisions of T. 23 S., R. 17 E.

CHAINS	
17.60	Wire fence, bears N.W. and S.E.
20.00	Spur, projects S.W. Descend.
26.00	Hollow, 50 ft. deep, course S.W. Ascend.
37.00	Spur, projects E. Descend.
40.00	Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
46.00	Hollow, 50 ft. deep, course W. Ascend.
48.00	Spur, projects S.W. Descend.
55.00	Hollow, 30 ft. deep, course S.W. Ascend.
66.00	Spur, projects S.W. Descend.
80.00	Set a sandstone, 15x8x5 ins., 10 ins. in the ground, for cor of secs. 29-30-31 and 32, marked with 1 notch on S. and 5 notches on W. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, rolling. Soil, sandy bottom on 9.00 chs., 2nd. rate. balance, rocky, 3rd. rate. No timber. Undergrowth greasewood. Mountainous land or dense undergrowth on 80.00 chs.
	Fast, on a random line, bet. secs. 29 and 32.
40.00	Set temp.- $\frac{1}{4}$ sec.cor.
79.96	Intersect N. and S. line, 7 lbs. S. of the cor. of secs. 28-29-32 and 33.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

Thence I run

S. $89^{\circ}57'W.$ , on a true line,

Bet. secs. 29 and 32.

Over level sandy land.

39.98 Set a quartzite stone, 18x6x4 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, dig pits, 18x18x12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of stone,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

74.00 Begin descent.

79.96 The cor. of secs. 29-30-31 and 32.

Land, level and rolling.

Soil, sandy, 3rd. rate.

No timber.

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West on a random line, bet. secs. 30 and 31.

40.00 Set t-mp.  $\frac{1}{4}$  sec. cor.

78.69 Intersect W. bdy. of Tp., 28 lks. S. of the cor. of secs. 25-30-31 and 36, heretofore described.

Thence I run

S. $89^{\circ}48'E.$ , on a true line,

Bet. secs. 30 and 31.

Over level cultivated land.

11.00 Log cabin, 30x15 ft., belonging to W. D. Thompson, bears S., 5.00 chs. dist.

17.20 Wire fence, bears N. and S.

Leave cultivated land, bears N. and S.

Begin ascent.

33.00 Road, to Green River, bears N.E. and S.W.

38.69 Set a sandstone, 18x15x6 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor..

Pits impracticable.

45.00 Ridge, bears N.E. and S.W.

Descend.

58.90 Road to Green River, bears N.E. and S.W.

72.00 Enter bottom of hollow, 100 ft. deep, course S.W.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

- 78.00 Leave hollow, course S.W.  
Ascend.
- 78.69 The cor. of secs. 29-30-31 and 32.  
Land level and rolling.  
Soil, sandy loam on 17.20 chs., 1st. rate.  
balance, rocky, 3rd. rate.  
No timber.
- 
- N. 0° 03' W., bet. secs. 29 and 30.
- Descend over sandy land.
- 2.50 Road to Green River, bears E. and W.
- 3.50 Enter bottom of hollow, 100 ft. deep, course S.W.
- 15.00 Leave hollow, course S.W.  
Ascend, over rocky land.
- 40.00 Set a sandstone, 15x8x5 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- 60.50 Ridge, bears N.E. and S.W.  
Descend.
- 80.00 Set a sandstone, 18x12x3 ins., 12 ins. in the ground, for cor. of secs. 19-20-29 and 30, marked with 2 notches on S. and 5 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, rolling.  
Soil, sandy and rocky, 3rd. rate.  
No timber.
- December 15: At this cor. I set off 23° 15' S. on decl. arc, and at 11h.55m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 48' N.

Corrective  
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Pages 3 and 4

## Subdivisions of T.23 S., R.17 E.

## CHAINS

N.89°57'E., on a random line, bet. secs. 20 and 29.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.92 Intersect N. and S. line, 3 lks. N. of the cor. of secs.

20-21-28 and 29.

Thence I run.

S.89°58'W., on a true line,

Bet. secs. 20 and 29.

Ascend over sandstone ledges.

15.00 Spur, projects S.

Leave sandstone ledges, descend over sandy land.

18.75 Road to Green River, bears N.E. and S.W.

26.00 Hollow, 75 ft. deep, course S.W.

Ascend.

51.50 Ridge, bears N.E. and S.W.

Descend.

39.96 Set sandstone, 15x8x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

79.92 Pits impracticable.

The cor. of secs. 19-20-29 and 30.

Land, mountainous.

Soil, sandy and rocky, 3rd. rate.

No timber.

Mountainous land on 79.92 chs.

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N.89°48'W., on a random line, bet. secs. 19 and 30.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

78.66 Intersect W. bdy. of Tp., 16 lks. S. of the cor. of secs.

19-24-25, and 30, heretofore described.

Thence I run.

S.89°41'E., on a true line,

Bet. secs. 19 and 30.

Over sandy land.

75. Ascend abruptly over solid sandstone ledges, bearing N.E. and S.W.

24.50 Sandstone spur, projects N.

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## Subdivisions of T. 23 S., R. 17 E.

CHAINS	
	Descend.
33.10	Hollow, 75 ft. deep, course N.E.
	Ascend.
36.50	Sandstone ridge, bears N.E. and S.W.
	Abrupt descent, over solid sandstone.
38.66	Point for $\frac{1}{4}$ sec.cor. falls on a sandstone shelf; I cut a cross (X), at exact point for $\frac{1}{4}$ sec.cor., mark $\frac{1}{4}$ on N.side of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
41.75	Foot of sandstone ledges, bear N.E. and S.W.
	Descend over sandy land.
64.50	Hollow, 100 ft. deep, course S.W.
	Ascend.
78.66	The cor.of secs. 19-20-29 and 30.
	Land, mountainous.
	Soil, sandy and rocky, 3rd. and 4th. rate.
	No timber.
	Mountainous land on 78.66 chs.
<hr/>	
	N. 0°03'W., bet.secs. 19 and 20.
	Descend over sandy and rocky land.
7.50	Hollow, 100 ft. deep, course S.W.
	Ascend.
40.00	Set a sandstone, 15x12x5 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
62.00	Knoll, 50 ft. high, on line, on top of ridge, bears E. and W.
	Descend over sandstone ledges.
80.00	Set a sandstone, 12x10x6 ins., 8 ins. in the ground, for cor. of secs. 17-18-19 and 20, marked with 3 notches on S. and 5 notches on E.edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.

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Page 5.See Corrective  
Notes Book G  
Page 5.

Subdivisions of T. 23 S., R. 17 E.

CHAINS

Land, mountainous.

Soil, sandy and rocky, 3rd. and 4th. rate.

No timber.

Mountainous land on 80.00 chs.

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N.  $89^{\circ}58' E.$ , on a random line, bet. secs. 17 and 20.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.96 Intersect N. and S. line, 3 lks. N. of the cor. of secs.

16-17-20 and 21.

Thence I run

S.  $89^{\circ}59' W.$ , on a true line,

Bet. secs. 17 and 20.

Descend over sandy land, through dense mountain rush.

39.98 Set a sandstone,  $15 \times 12 \times 3$  ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

51.00 Begin abrupt descent over sandstone ledges, bearing N.E. and S.W.

79.96 The cor. of secs. 17-18-19 and 20.

Land, mountainous.

Soil, sandy and rocky, 3rd. and 4th. rate.

No timber. Undergrowth mountain rush.

Mountainous land or dense undergrowth on 79.96 chs.

December 15, 1905.

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December 16: At 7h. 56m., a.m., l.m.t., I set off  $38^{\circ}49' N.$  on lat. arc.,  $23^{\circ}14' S.$  on decl. arc, and determine a meridian with the solar, at the cor. of secs. 17-18-19 and 20. Knowing the line bet. secs. 18 and 19 will not close within limits on the W. bdy. of the Tp., I run

N.  $89^{\circ}41' W.$ , on a true line,

Bet. secs. 18 and 19.

Descend over sandstone ledges.

9.50 Hollow, 75 ft. deep, course N.W.

## Subdivisions of T. 23 S., R. 17 E.

CHAINS	
	Ascend.
33.00	Sandstone spur, projects N. Abrupt descent over broken land.
40.00	Set a sandstone, 12x10x5 ins., 8 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
42.25	Hollow, 100 ft. deep, course N.W. Ascend.
57.50	Sandstone spur, projects N. Abrupt descent.
62.00	Hollow, 200 ft. deep, course S.W. Abrupt ascent.
71.00	Sandstone, ridge, bears N.E. and S.W. Descend.
78.56	Intersect W.bdy. of Tp., 54 lbs. S. of the cor. of secs. 13-18-19 and 24, heretofore described. Set a sandstone, 15x10x8 ins., 10 ins. in the ground, for closing cor. of secs. 18 and 19, marked C on E., and 3 grooves on N. and S. faces, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor. Pits impracticable. I destroy all marks on the old cor. of secs. 13-18-19 and 24 that refer to R. 17 E. Land, mountainous. Soil, rocky, 4th. rate. No timber. Mountainous land on 78.56 chs.
	N. 0° 03' W., bet. secs. 17 and 18. Descend abruptly over sandstone ledges.
6.00	Hollow, 150 ft. deep, course W. Abrupt ascent.
8.25	Sandstone spur, projects W. Abrupt descent.
12.00	Hollow, 100 ft. deep, course W.

## Subdivisions of T.23 S., R.17 E.

## CHAINS

- Abrupt ascent.
- 18.00 Sandstone spur, projects W.  
Descend.
- 24.75 Hollow, 100 ft. deep, course W.  
Ascend.
- 34.00 Sandstone spur, projects W.  
Descend abruptly over solid sandstone.
- 40.00 Point for  $\frac{1}{4}$  sec.cor.falls on a steep sandstone slope and cannot be set.
- 41.00 Narrow sandstone gorge, 2.00 chs.wide, 150 ft. deep, course S.W.  
Abrupt ascent.
- 45.90 Top of abrupt ascent, bears E. and W.  
Set a sandstone, 15x9x5 ins., 10 ins.in the ground, for witness cor.to  $\frac{1}{4}$  sec.cor., marked W.C. $\frac{1}{4}$  on W.face, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.  
Pits impracticable.  
Ascend.
- 54.00 Begin abrupt ascent bears N.E. and S.W.
- 55.40 Rocky spur, projects S.W.  
Abrupt descent.
- 58.50 Hollow, 100 ft. deep, course S.W.  
Abrupt ascent.
- 60.50 Rocky spur, projects S.W.  
Abrupt descent.
- 75.50 Hollow, 150 ft. deep, course S.W.  
Abrupt ascent.
- 80.00 Spur projects S.  
Set a sandstone, 18x14x4 ins., 12 ins.in the ground, for cor.of secs.7-8-17 and 18, marked with 4 notches on S. and 5 notches on E.edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft.high, W.of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, rocky, 4th.rate.

## Subdivisions of T. 23 S., R. 17 E.

CHAINS	
	No timber.
	Mountainous land on 80.00 chs.
	N. 89° 59' E., on a random line, bet. secs. 8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.94	Intersect N. and S. line, 9 lks. N. of the cor. of secs. 8-9-16 and 17.
	Thence I run
	N. 89° 57' W., on a true line,
	Bet. secs. 8 and 17.
	Ascend over rocky land.
1.00	Spur, projects S.
	Descend.
4.00	Hollow, 100 ft. deep, course S.
	Ascend.
13.00	Ridge, bears N.E. and S.W.
	Descend.
28.00	Hollow, 150 ft. deep, course N.
	Ascend.
39.97	Set a sandstone, 24x12x5 ins., 18 ins. in the ground, for sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
45.00	Ridge, bears N.W. and S.E.
	Descend abruptly over gypsum spurs.
75.00	Hollow, 300 ft. below top of ridge; course S.W.
	Abrupt ascent.
79.94	Spur, projects S.
	The cor. of secs. 7-8-17 and 18.
	Land, mountainous.
	Soil, rocky and gypsum, 3rd. rate.
	No timber.
	Mountainous land on 79.94 chs.

## Subdivisions of T.23 S., R.17 E.

## CHAINS

Knowing the line bet.secs.7 and 18 will not close within limits on the W.bdy.of the Tp., I run N.89°41'W., on a true line.

Bet.secs.7 and 18.

Descend over broken and rocky land.

34.00 Hollow, 150 ft. deep, course S.

Abrupt ascent.

40.00 Set a sandstone, 18x10x3 ins., 12 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{2}$  on N.face, and raise a mound of st<sup>n</sup>one, 2 ft.base, 1 $\frac{1}{2}$  ft.high, N.of cor.

Pits impracticable.

43.90 Ridge, bears N.E. and S.W.

Abrupt descent over broken land..

76.00 Hollow, 150 ft. deep, course S.W.

Abrupt ascent.

78.40 Intersect W.bdy.of Tp., 78 lks.S.of the cor.of secs.

7-12-13 and 18, heretofore described.

Set a quartzite stone, 15x7x4 ins., 10 ins.in the ground, for closing cor.to secs.7 and 18, marked C.C.on E.and wit 4 grooves on S.and 2 grooves on N.faces, and raise a moun of stone, 2 ft.base, 1 $\frac{1}{2}$  ft.high, E.of cor.

Pits impracticable.

I destroy all marks on the cor.of secs.7-12-13 and 18, that pertain to R.17 E.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 78.40 chs.

December 16: At this cor.I set off 23°18'S., on decl. arc, and at 11h.56m., a.m., l.m.t., observe the sun on the meridian, the resulting lat.is 38°49'N.

Subdivisions of T. 23 S., R. 17 E.

CHAINS	N. 0° 03' W., bet. secs. 7 and 8.
	Ascend abruptly over gypsum spurs.
40.00	Set a sandstone, 18x10x8 ins., 12' ins. in the ground, for sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
42.00	Rocky ridge, bears E. and W.
	Descend.
58.00	Hollow, 100 ft. deep, course W.
	Ascend.
69.00	Ridge, bears E. and W.
	Descend.
80.00	Set a sandstone, 28x12x5 ins., 21' ins. in the ground, for cor. of secs. 5-6-7 and 8, marked with 5 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, gypsum and rocky, 3rd. rate.
	No timber.
	Mountainous land. on 80,00 chs.
	S. 89° 57' E., on a random line, bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line., 30 lks. S. of the cor. of secs. 4-5-8 and 9.
	Thence I run
	S. 89° 50' W., on a true line,
	Bet. secs. 5 and 8.
	Descend abruptly over rocky land, along hollow, course W.
19.00	Hollow, 200. ft. deep, course N.W.
	Abrupt ascent.
24.00	Rocky spur, projects N.
	Abrupt descent.
27.70	Hollow, 150. ft. deep, course N.E.
	Abrupt ascent.

Subdivisions of T. 23 S., R. 17 E.

HAINS

53.80 Spur, projects N.

Descend.

40.00 Set a limestone, 18x10x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

45.00 Hollow, 150 ft. deep, course N.E.

Ascend.

49.60 Rocky spur, projects N.E.

Descend.

61.00 Hollow, 150 ft. deep, course N.

Ascend.

64.00 Rocky spur, projects N.

Descend.

71.50 Hollow, 100 ft. deep, course N.E.

Ascend.

80.00 The cor. of secs. 5-6-7 and 8.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

---

Knowing the line bet. secs. 6 and 7 will not close within limits on the W. bdy. of the Tp., I run

N. $89^{\circ}41'W.$ , on a true line,

Bet. secs. 6 and 7.

Ascend over rocky land, through dense artemisia.

16.00 Ridge, bears N.W. and S.E.

Descend.

40.00 Set a sandstone, 15x8x4 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

40.30 Hollow, 100 ft. deep, course S.W.

Ascend.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

- 49.75 Rocky spur, projects S.W.  
Abrupt descent.
- 73.75 Hollow, 150 ft. deep, course N.W.  
Ascend.
- 78.19 Intersect W.bdy.of Tp., 1.27 chs.S. of the cor.of secn.  
1-6-7 and 12, heretofore described.  
Set a limestone, 24x10x4 ins., 18 ins. in the ground, for  
closing cor.to secs.6 and 7, marked C.C.on E., with 5  
grooves on S. and 1 groove on N.faces, and raise a mound  
of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, E.of cor.  
Pits impracticable.  
I destroy all marks on the cor.of secs.1-6-7 and 12, that  
pertain to R.17 E.  
Land, mountainous.  
Soil, rocky, 3rd.rate.  
No timber. Undergrowth artemisia.  
Mountainous land or dense undergrowth on 78.19 chs.
- 
- N.0°03'W., on a random line, bet.secns.5 and 6.  
40.00 Set temp. $\frac{1}{4}$  sec.cor.
- 82.79 Intersect N.bdy.of Tp., 3 lks.W. of the reestablished cor.  
of secns.5-6-31 and 32, heretofore described.  
Thence I run  
S.0°02'E., on a true line,  
Bet.secns.5 and 6.  
Ascend abruptly over rocky land.
- 14.00 Enter sandstone ledges, bearing E. and W.
- 42.79 Point for cor falls on a smooth sandstone floor; I cut a  
cross (X), at exact point for  $\frac{1}{4}$  sec.cor., mark  $\frac{1}{4}$  on W.  
side of cross, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$   
ft. high, W.of cor.  
Pits impracticable.
- 52.00 Leave sandstone ledges.  
Ascend over rocky land.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

82.79 The cor. of secs. 5-6-7 and 8, 200 ft. above the cor. of secs. 5-6-31 and 32, on the N.bdy. of the Tp.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

No timber.

Mountainous land on 82.79 chs.

December 16, 1905.

## MEANDERS, T. 23 S., R. 17 E.

Meanders of the right bank of Green River, upstream.

I commence at the meander cor. of fract. secs. 6 and 31, on the S.bdy. of the Tp., heretofore described.

December 17: At 7h. 56m., a.m., l.m.t., I set off  $38^{\circ}46'N.$  on lat.arc,  $25^{\circ}17'S.$ , on decl.arc, and determine a meridian with the solar.

Thence I run with meanders in sec. 31.

Through dense willow brush.

N. $35^{\circ}00'W.$ , 10.00 chs. Bank, 75 ft. high.

N. $38^{\circ}30'W.$ , 7.50 " Bank 20 ft. high, Enter fringe of heavy cottonwood timber.

N. $29^{\circ}30'W.$ , 7.50 "

N. $21^{\circ}15'W.$ , 5.50 "

N. $27^{\circ}00'W.$ , 2.10 "

N. $18^{\circ}30'W.$ , 4.40 "

N. $12^{\circ}30'W.$ , 15.90 "

N. $33^{\circ}15'W.$ , 5.60 "

N. $42^{\circ}00'W.$ , 10.40 "

N. $56^{\circ}00'W.$ , 13.00 "

Bank, 100 ft. high, leave timber.

N. $60^{\circ}00'W.$ , 4.90 "

N. $64^{\circ}15'W.$ , 3.60 " To the meander cor. of fract. secs. 31 and 36.

Land, rocky, and bottoms.

Soil, rocky, 3rd. rate.

## Meanders in T.23 S., R.17 E.

Timber, cottonwoods on 69.90 chs.

Mountainous land, dense undergrowth or heavily timbered land on 28.40 chs.

---

Meanders of the left bank of Green River, down stream. I commence at the meander cor. of fract. secs. 31 and 36, heretofore described, and run with meanders in sec. 31.

Over gravelly beach, through dense willow brush, bank, 20 ft. high.

S. 62°00'E., 24.50 chs.

S. 47°00'E., 6.40 "

S. 35°00'E., 5.60 "

S. 46°30'E., 6.10 " , Leave brush, Enter sandstone ledges,

S. 23°30'E., 7.60 " bank, 100 ft. high.

S. 2°30'W., 4.60 "

S. 9°00'E., 8.00 "

S. 15°30'F., 3.90 " From this point, frame house belonging to E.T. Wolverton, bears E. 15 lks.

S. 40°00'E., 4.50 "

S. 47°30'E., 15.50 " At 12.50 chs., mouth of wide hollow, from N.E. Leave sandstone ledges,

S. 24°15'E., 3.20 " Along clay bank 25 ft. high.

S. 15°30'E., 14.30 " To the meander cor. of fract. secs. 6 and 31, heretofore described.

Land, bottoms and mountainous.

Soil, rocky and clay, 2nd. and 3rd. rate.

No timber.

Mountainous land or dense undergrowth on 104.00 chs.

December 17, 1905.

General Description of T.23 S., R.17 E.

This township lies in the breaks on the east side of Green River and the surface is badly broken by many deep, hollow, draining into Green River, giving it a mountainous character.

The soil in the eastern portion is nearly all solid sandstone, the north western portion, rocky and gypsum breaks while the south western portion is sandy.

The only land fit for agricultural purposes is located in the bottom land along Green River in sections 30-31 and 32; the area of the land upon which crops could be raised with irrigation is estimated at 160 acres.

The only timber in the township is a fringe of cottonwoods along the west bank of Green River.

The only water in the township is Green River, which flows through sec. 31.

Manganese ore is found lying on the surface of the sandstone, in secs. 1-2-9-10-15-16-23-24-25 and 26, there was no ledge noticed at any point on the survey; these secs. are return ed as mineral lands.

There is no other mineral found in this township.

U.S. Location monuments, for the Wheeler Desert Mining District, Grand County, Utah, were found as follow:

U.S.L.M. No.1, in sec. 16.

U.S.L.M. No.2, in sec. 2., and

U.S.L.M. No.3, in sec. 26.

The settlers found in this township are as follow:

W.D.Thompson, in S.W. $\frac{1}{4}$  sec. 30 and N.W. $\frac{1}{4}$  sec. 31.

Acres of land under cultivation, 50.

Value of improvements, \$1500.00

E.T.Wolverton, S.E. $\frac{1}{4}$  sec. 31.

No land under cultivation.

Value of improvements \$2000.00

A miner's cabin, value about \$500.00 belonging to the Colorado Iron and Fuel Co., is located in N.W. $\frac{1}{4}$  sec. 15

General Description of T. 23 S., R. 17 E.

Harvey H. Fleet  
U.S. Deputy Surveyor.

**Volume**

**#**

**R0340**

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by

the United States Deputy Surveyor, to assist in running, measuring, and  
describing the lines and corners described in the foregoing field notes of the survey of,

specifying the respective capacities in which they acted:

John Clegg, Acting Surveyor, one year, 1844-50, 2d, 7th, 11th, 12th, 13th,	Chairman,
	, Chairman,
	, Member,

## FINAL OATH OF ASSISTANTS.

We, the undersigned, do solemnly swear

to tell the truth, the whole truth, and nothing but the truth so help us God.

Given under our hands, this

day of

1850.

John Clegg, Acting Surveyor,

I, John Clegg, Acting Surveyor, do solemnly swear that I have read and understood the foregoing field notes of the survey of the land described in the warrant, and that the same were taken in the presence of the persons whose names are written below, and that the same were taken in accordance with the laws of the United States, and that the same are true and correct to the best of my knowledge and belief.

John Clegg, Acting Surveyor, one year, 1844-50, 2d, 7th, 11th, 12th, 13th,	Chairman,
	, Chairman,
	, Member,

Subscribed and sworn before me this day of

day of

1850.

John Clegg,  
Acting Surveyor

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ..... United States Surveyor General for ..... bearing date ..... day of ..... 190 ..... I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ..... For final affidavit see book "U", Tp. 21 S., R. 17 E.

..... of the ..... meridian, in the ..... of ..... which are represented foregoing field notes as having been surveyed by me, and under my direction; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said ..... and sworn to before me }  
this ..... day of ..... 190 }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Salt Lake City, Utah, Wash. /S/*

The foregoing field notes of the survey of the Subdivisional lines of Towns No. 23, South, Range No. 17 East of the Salt Lake Base and Meridian, Utah,

executed by ..... Harvey J. Heist and Earl V. Woolley ..... their under his contract No. 291 ..... dated June 3, ..... 1905, having critically examined, and the necessary corrections and explanations made, the said field notes, a surveys they describe, are hereby approved.

*Thomas Bell*  
United States Surveyor Ge

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

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MAR 6 1907

BOOK A-340

CORRECTIVE

W.H.P.

## FIELD NOTES

to Book "C", Original Field Notes  
OF THE SURVEY OF THE

SUBDIVISIONS

of

Township No. 23 South,

Range No. 17 East,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Survey D. Heist and Earl V. Woolley, United States Deputy Surveyor,<sup>s</sup>  
er <sup>their</sup> ~~his~~ Contract No. 291, dated June 3, 1905

ey commenced February 28, 1907

vey completed March 1, 1907

## NAMES AND DUTIES OF ASSISTANTS.

Charles Stumm, Chainman

Earl Woolley, "

Charles Stumm, Moundman

Earl Woolley, "

Charles Stumm, Flagman

BOOK A-340

## INDEX DIAGRAM.

*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

6	5	4	8	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

*Meanders Page* \_\_\_\_\_

## PRELIMINARY OATHS OF ASSISTANTS.

WE, Charles Stumm, and Earl Woolley

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we measure, to the best of our skill and ability, and in accordance with instructions given us, in the subdivisions of T. 21 and 23 S., R. 17 E. and T. 22 S., R. 15 E., S. L. B. Utah,

*Charles Stumm*, Chain  
*Earl Woolley*, Chain

Subscribed and sworn to before me this 28th.  
day of February, 1907



*Famey D. Flint*  
U. S. Deputy Surveyor

WE, Charles Stumm and Earl Woolley

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the subdivisions of T. 21 and 23 S., R. 17 E. and T. 22 S., R. 15 E., S. B. & M., Utah.

*Charles Stumm*, Mound  
*Earl Woolley*, Mound

Subscribed and sworn to before me this 28th.  
day of February, 1907



*Famey D. Flint*  
U. S. Deputy Surveyor

WE, \_\_\_\_\_ and \_\_\_\_\_

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the subdivisions of T. 21 and 23 S., R. 17 E. and T. 22 S., R. 15 E., S. B. & M., Utah.

*Ax*

Subscribed and sworn to before me this 28th.  
day of February, 1907



I, Charles Stumm, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the corrective survey of subdivisions of T. 21 and 23 S., R. 17 E., and T. 22 S., R. 15 E., S. L. B. & M., Utah.

*Charles Stumm*, Flag

Subscribed and sworn to before me this 28th.  
day of February, 1907



*Famey D. Flint*  
U. S. Deputy Surveyor

## CORRECTIVE NOTES OF

## SUBDIVISIONS OF T. 23 S., R. 17 E.

## CHAINS

Survey commenced, February 28, 1907, and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris,

I proceed as follows:

At the cor. of secs. 10-11-14 and 15, T. 23 S., R. 17 E., described in original field notes, latitude  $38^{\circ}50'N.$ , longitude  $110^{\circ}03'W.$ ; At 4h. 13m., p.m., l.m.t., I set off  $38^{\circ}50'N.$  on lat. arc,  $8^{\circ}04'S.$  on decl. arc, and determine with the solar a meridian and mark a point thereof, on a stone, firmly set in the ground, 5 chs. N. of the cor.

At 8h. 50m., p.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

February 28, 1907.

March 1: At 7 a.m., l.m.t., I lay off the azimuth of Polaris  $1^{\circ}32'$  to the east, and mark the meridian thus determined, by cutting a small groove in the stone set last evening, on which the meridian falls 0.5 ins. east of the meridian established by the solar.

At 8h. 13m., a.m., l.m.t., I set off  $38^{\circ}50'N.$  on lat. arc,  $7^{\circ}49'S.$  on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.4 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations, defines positions for meridians, respectively about  $0'26''$  west and  $0'21''$  east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

## CORRECTIVE NOTES OF

## SUBDIVISIONS OF T. 23 S., R. 17 E.

## CHAINS

- The magnetic bearing of the true meridian, at 8h.30m., a.m. is N. $15^{\circ}30'W.$ ; the angle thus determined gives the mag. decl.  $15^{\circ}30'E.$
- From the cor. already described, I run  
N. $0^{\circ}01'W.$ , bet. secs. 10 and 11.
- 39.74 Fall 23 lks. W. of the  $\frac{1}{4}$  sec. cor. bet. secs. 10 and 11, described in original field notes.
- 40.00 Set original stone; a sandstone,  $18 \times 10 \times 5$  ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face; and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- On account of natural conditions, this stone was set in a mound of stone covered with earth.
- I destroy all traces of the original cor.
- 79.96 Fall 25 lks. W. of the cor. of secs. 2-3-10, and 11, described in the original field notes.
- 80.00 Set original stone; a sandstone,  $28 \times 8 \times 6$  ins., 21 ins. in the ground, for cor. of secs. 2-3-10 and 11, marked with 2 notches on E. and 5 notches on S. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- I destroy all traces of original cor.
- Note:
- There is no change in the topography on this line.
- 
- S. $89^{\circ}54'E.$  on a random line, bet. secs. 2 and 11.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 80.22 Intersect the cor. of secs. 1-2-11 and 12, described in original field notes.
- Thence I run
- N. $89^{\circ}54'W.$ , on a true line, bet. secs. 2 and 11.
- 40.05 The  $\frac{1}{4}$  sec. cor. bet. secs. 2 and 11, described in original field notes, bears 2 lks. S.
- 40.11 Set original stone; a sandstone,  $28 \times 12 \times 3$  ins., 21 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

See original  
field book C  
page 184-19

See original  
field book C  
page 190-20

## CORRECTIVE NOTES OF

## SUBDIVISIONS OF T. 23 S., R. 17 E.

CHAINS

- Pits impracticable.
- I destroy all traces of original cor.
- 80.22 The cor. of secs. 2-3-10 and 11.
- Note: There is no change of topography on this line.  
Set temp.  $\frac{1}{4}$  sec.cor.
- N.0°01'W. on random line, bet. secs. 2 and 3.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 82.47 Intersect N. bdy. of Tp., at the cor. of secs. 2-3-34 and 35, described in original field notes.
- Thence I run  
 S.0°01'N. on a true line, bet. secs. 2 and 3.
- 12.47 The original  $\frac{1}{4}$  sec.cor. bet. secs. 2 and 3, bears E.15 lks.  
 Set original stone, a limestone, 18x12x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- I destroy all traces of the original cor.
- 32.47 The cor. of secs. 2-3-10 and 11.
- Note: There is no change of topography on this line.  
 March 1: At this cor. I set off 7°40'S. on decl. arc, and at 0h.13m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°50'N.
- 
- From the cor. of secs. 2-3-10 and 11, I run  
 N.89°53'W., on a random line, bet. secs. 3 and 10.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 9.92 Intersect the cor. of secs. 3-4-9 and 10, described in the original field notes.
- Thence I run  
 S.89°53'E., on a true line, bet. secs. 3 and 10.
- 39.96 The original  $\frac{1}{4}$  sec.cor. bet. secs. 3 and 10, bears E.13 lks.  
 Point for  $\frac{1}{4}$  sec.cor. falls on a smooth sandstone ledge, I cut a cross (X) at exact point for  $\frac{1}{4}$  sec.cor. marked  $\frac{1}{4}$  on N. side of cross and raise a mound of stone, 2 ft. bas

See original  
out Book C  
pages 19 & 20original  
out Book C  
pages 20 & 21See original  
out Book C  
pages 28 & 29

-4-

## CORRECTIVE NOTES OF

## SUBDIVISIONS OF T. 23 S., R. 17 E.

## CHAINS

1 $\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

I destroy all traces of the old cor.

79.92

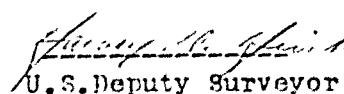
The cor. of secs. 2-3-10 and 11.

## Note:

There is no change of topography on this line.

See original  
Note book C  
page 28 & 29

March 1, 1907.

  
U.S. Deputy Surveyor

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

list of the names of the individuals employed by .....  
....., United States Deputy Surveyor, to assist in running, measuring, and  
get the lines and corners described in the foregoing field notes of the survey of .....

the respective capacities in which they acted:

For final affidavits see book Z, Corrective Field Notes, *Chainman*,  
....., *Chainman*.

....., *Moundman*.

....., *Moundman*.

....., *Axman*.

....., *Axman*.

....., *Flagman*.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....  
....., United States Deputy Surveyor, in surveying all  
parts or portions of the .....

....., of the .....,  
meridian, ..... of ..... which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
is in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
monuments established, according to the instructions furnished by the United States Surveyor

I for .....  
For final affidavits see book Z, Corrective Field Notes, *Chainman*.

....., *Chainman*.

....., *Moundman*.

....., *Moundman*.

....., *Axman*.

....., *Axman*.

....., *Flagman*.

I have read and sworn to before me this ..... }  
y of ..... , 190 }  
y of ..... , 190 }

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## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from, ..... United States Surveyor General for, ..... bearing date, ..... day of, ..... 1905, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for, ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of,

For final affidavit see book 3 Corrective Project Notes.

..... meridian, in the ..... of, ..... which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for, ..... and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said ..... and sworn to before me,  
this ..... day of ..... 1905

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## APPROVAL.

## OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, March 18, 1905.

The foregoing field notes of the survey of the Subdivisinal lines of Township No. 33 South, Range No. 17 East of the Salt Lake Meridian, Utah,

executed by Harvey J. Heist and Earl V. Woolley, under his contract No. 291, dated June 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

*Thomas Marshall*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

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4-679.

FILED

AUG 15 1908  
*[Signature]*

C-O-R-R-E-C-T-I-V-E

BOOK A-340

## FIELD NOTES

To Book "C" Original Field Notes  
OF THE SURVEY OF THE

## S U B D I V I S I O N S

of

Township No. 23 South,

Range No. 17 East,

Of the Salt Lake Base and Meridian,

in the state of Utah

AS SURVEYED BY

Surveyor D. Heist and Earl V. Woolley, United States Deputy Surveyor, S

his Contract No. 291, dated June 3, 1908

commenced July 19, 1908, 1908

and completed July 21, 1908, 1908

## NAMES AND DUTIES OF ASSISTANTS.

Earl Woolley	Chairman
Walter Stumm,	"
Walter Stumm,	Moundman
Claude L. Heist,	Axman
Earl Woolley	Flagman

For preliminary affidavits see book ~~4~~ Tp. 23 S., R. 15 E.

BOOK A-340

INDEX DIAGRAM.

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*Meanders Page* .....

## PRELIMINARY OATHS OF ASSISTANTS.

WE, \_\_\_\_\_ and \_\_\_\_\_  
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of \_\_\_\_\_, Chain \_\_\_\_\_, Chai.

Subscribed and sworn to before me this \_\_\_\_\_ }  
 day of \_\_\_\_\_, 190 }  


WE, \_\_\_\_\_ and \_\_\_\_\_  
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_, Mount \_\_\_\_\_, Moun.

Subscribed and sworn to before me this \_\_\_\_\_ }  
 day of \_\_\_\_\_, 190 }  


WE, \_\_\_\_\_ and \_\_\_\_\_  
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of \_\_\_\_\_, Ax \_\_\_\_\_, Axe \_\_\_\_\_, Axe.

Subscribed and sworn to before me this \_\_\_\_\_ }  
 day of \_\_\_\_\_, 190 }  


I, \_\_\_\_\_, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of \_\_\_\_\_, Flag \_\_\_\_\_, Flag.

Subscribed and sworn to before me this \_\_\_\_\_ }  
 day of \_\_\_\_\_, 190 }  


## CORRECTIVE NOTES OF

## SUBDIVISIONS OF T. 23 S., R. 17 EAST.

## CHAINS

Survey commenced, July 19, 1908, and executed with the instrument described in book "A", of the original field notes.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

I begin at the cor. of secs. 28-29-32 and 33, T. 23 S., R. 17 E., described in original field notes, in approximate latitude  $38^{\circ}47'N.$ , longitude  $110^{\circ}95'W.$ , I set off  $38^{\circ}47'N.$ , on lat. arc,  $20^{\circ}49'N.$ , on decl. arc, and at 4h.06m., p.m., l.m.t., determine with the solar a meridian and mark a point thereof, on a stone, firmly set in the ground, 5 chs.N. of the cor.

At 11h.40m., p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs.N. of my station.

July 19, 1908

---

July 20 : At 7 a.m., I lay off the azimuth of Polaris,  $1^{\circ}31'$  to the west, and mark the meridian thus determined by cutting a small groove in the stone set last evening on which the meridian falls 0.5 ins. east of the mark determined by the solar.

At 8h.06m., a.m., l.m.t., I set off  $38^{\circ}47'N.$ , on lat. arc.,  $20^{\circ}41'N.$ , on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs.N. of my station; this mark falls 0.5 ins. east of the meridian established by the Polaris observation.

-2-

CORRECTIVE NOTES OF  
SUBDIVISIONS OF T. 23 S., R. 17 E.

CHAINS	The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, $0^{\circ}26'$ west and east of the meridian established by the Polaris observations, therefore, I conclude that the adjustments of the instrument are satisfactory.
	The magnetic bearing of the true meridian at 8h. 30m., a.m., is N. $15^{\circ}30'W.$ ; the angle thus determined gives the mag. decl. $15^{\circ}30'E.$
	From the cor. of secs. 28-29-32 and 33, I run N. $0^{\circ}03'W.$ , bet. secs. 28 and 29.
40.00	Set original stone, a sandstone, $15 \times 8 \times 5$ ins., 10 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, dig pits, $18 \times 18 \times 12$ ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor. The position of the original $\frac{1}{4}$ sec.cor., bears W. $5^{\circ}1$ ks. I destroy all traces of the original $\frac{1}{4}$ sec.cor.
79.72	The original cor. of secs. 20-21-28 and 29 bears W. $5^{\circ}1$ ks.
80.00	Set original stone, a sandstone, $15 \times 12 \times 7$ ins., in mound of stone, for cor. of secs. 20-21-28 and 29, marked with 2 notches on S. and 4 notches on E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. It is impossible to set this cor. in the ground. I destroy all traces of the original cor.
	Note: There is no change of topography on this line.
	N. $89^{\circ}56'W.$ , on a random line, bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.08	Intersect N. and S. line, $\frac{3}{4}$ lks. N. of the cor. of secs. 21-22-27 and 28, described in original field notes. Thence I run
	N. $89^{\circ}49'W.$ , on a true line, bet. secs. 21 and 28.
40.04	Set a sandstone, $18 \times 10 \times 4$ ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

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Notes Book C  
page 32

Original  
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page 33

## CORRECTIVE NOTES OF

## SUBDIVISIONS OF T. 23, S., R. 17, E.

## CHAINS

Pits impracticable.

This cor. is set in shifting sand and no trace can be found of the original & sec.cor.

80.08 The cor. of secs. 20-21-28 and 29.

Note:

There is no change of topography on this line.

The original & sec.cor. is apparently buried under several feet of loose sand.

N. 0°03'W., bet. secs. 20 and 21.

39.90 The original & sec.cor. bears E. 2 lks.

40.00 Set original stone, a sandstone, 18x10x5 ins., 12 ins. in the ground, for & sec.cor., marked & on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

I destroy all traces of the original & sec.cor.

40.00 Intersect the cor. of secs. 16-17-20 and 21, described in original field notes.

Note:

There is no change of topography on this line.

July 20, 1908

July 21: At 8h. 06m., a.m., I set off  $38^{\circ}47'N.$ , on lat.arc,  $20^{\circ}30'N.$ , on decl.arc, and determine a meridian with the polar, at the cor. of secs. 20-30-31 and 32, described in original field notes.

Thence I run,

N. 0°03'W., bet. secs. 29 and 30.

39.94 The original & sec.cor. bears 25 lks. east.

40.00 Set original stone, a sandstone, 18x8x5 ins., 10 ins. in the ground, for & sec.cor., marked & on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

I destroy all traces of original cor.

Swingin  
mtg Brk C  
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Swingin  
mtg Brk C  
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CORRECTIVE NOTES OF  
SUBDIVISIONS OF T. 23 S., R. 17 E.

## CHAINS

- 80.00 The original cor. of secs. 19-20-29 and 30 bears E. 92 lks.  
Set original stone, a sandstone, 18x12x3 ins., in mound of  
stone  $\frac{1}{2}$ , for cor. of secs. 19-20-29 and 30, marked with  
2 notches on S. and 5 notches on E. edges, and raise a mound  
of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
It is impossible to set this cor. in the ground.  
I destroy all traces of the original cor.  
Note:  
There is no change of topography on this line.
- 
- N.  $89^{\circ}57' E.$ , on a random line, bet. secs. 20 and 29  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.82 Intersect N. and S. line, 15 lks. S. of the cor. of secs.  
20-21-28 and 29.  
Thence I run  $\checkmark$   
S.  $89^{\circ}51' W.$ , on a true line,  
Bet. secs. 20 and 29.
- 38.89 The original  $\frac{1}{4}$  sec. cor. bears South, 10 lks.  
39.91 Set same stone, a sandstone, 15x8x5 ins., 10 ins. in the  
ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{2}$  on N. face, and raise a  
mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.  
I destroy all traces of the original  $\frac{1}{4}$  sec. cor.  
79.82 The cor. of secs. 19-20-29 and 30.  
Note:  
There is no change of topography on this line.  
 $\checkmark$   
July 21: At this cor. I set off  $20^{\circ}28' N.$ , on decl. arc, and  
at 0h. 06m., p.m., l.m.t., observe the sun on the meridian,  
the resulting lat. is  $38^{\circ}48' N.$

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Notes Book  
C page 43

## CORRECTIVE NOTES OF

## SUBDIVISIONS OF T. 23 S., R. 17 E.

CHAINS	N.89°48'W., on a random line, bet. secs. 19 and 30.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
78.61	Intersect W.bdy.of Tp. 7 lks.N.of cor.of secs. 19-24-25 and 30, described in original field notes. Thence I run
	S.89°45'W., on a true line, bet. secs. 19 and 30.
38.61	Falls on the smooth surface of a sandstone ledge, I cut a cross (X), at exact point for $\frac{1}{4}$ sec.cor., mark $\frac{1}{4}$ on N. side of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor. <i>See original note book C page 40 &amp; 44</i>
	Pits impracticable.
39.51	Original $\frac{1}{4}$ sec.cor.bears N.5 lks.dist, I destroy all traces of original $\frac{1}{4}$ sec.cor.
78.61	The cor.of secs. 19-20-29 and 30.
	Note: There is no change of topography on this line.
	<hr/>
	N.0°03'W., bet. secs. 19 and 20
10.00	The original $\frac{1}{4}$ sec.cor.bears E.25 lks.dist. Set same stone, a sandstone, 15x12x5 ins., in mound of stone, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. <i>See original note book C page 44</i>
	Pits impracticable. It is impossible to set this stone in the ground on account of natural obstacles.
	I destroy all traces of the original $\frac{1}{4}$ sec.cor.
30.00	Intersect the cor.of secs. 17-18-19 and 20.
	Note: There is no change of topography on this line.
	<hr/>
	From the cor.of secs. 9-10-15 and 16, T. 23 S., R. 17 E., U.S.L.M.No.1,described in original field notes,bears S.34°15'W., 18.08 chs.dist. <i>See original note book C page 26</i>

July 21, 1908

James L. First  
U.S. Deputy Surveyor

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## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A List of the names of the individuals employed by

United States Deputy Surveyor, to assist in running, measuring, and  
recording the lines and corners described in the foregoing field notes of the survey of . . .

in the respective capacities in which they acted:

John C. Ladd, Civil Engineer, Superintendent, / /	Chairman,
John C. Ladd, " "	Chairman,
John C. Ladd, " "	Member,
John C. Ladd, " "	Member,
John C. Ladd, " "	Member,
John C. Ladd, " "	Member,
John C. Ladd, " "	Member,
John C. Ladd, " "	Member,

## Oaths, OATHS OF APPURTANT.

No Deputy required to be present

I, John C. Ladd, Civil Engineer, do solemnly swear

that the persons above named

are my assistants, and have been engaged by me to assist me in running, measuring, and recording the lines and corners described in the foregoing field notes of the survey of . . . I do solemnly swear

John C. Ladd,	Chairman,
John C. Ladd,	Member,

(Signed and countersigned before this)

John C. Ladd

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## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final affidavit see book // Tp. 19 S., R. 1 W.

..... of the ..... meridian, in the ..... of ..... which are represented by the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }



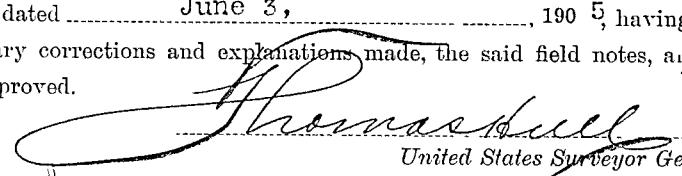
## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, September 5, 1905.

The foregoing field notes of the survey of the Subdivision of Township No. 2 South, Range No. 17 East, of the Salt Lake Base and Meridian, Utah, \_\_\_\_\_,

executed by Harvey D. Heist and Earl V. Woolley, under their contract No. 291, dated June 3, 1905, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

  
Thomas D. Clark  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

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*m.m.f.  
T.S.P.D.*  
FILED  
MAR 15 1906  
*J.W.C.*

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BOOK A-340

## FIELD NOTES

OF THE SURVEY OF THE

R-E-T-R-A-C-E-M-E-N-T O-F T-H-E

WEST BOUNDARY

of

Township No. 22 S., Range No. 17 East.

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

y-B. Heist and Earl V. Woelley, United States Deputy Surveyor

r hts Contract No. 291, dated June 3, 1905

cement commenced December 17, 1905

cement completed December 18, 1905

Dec 6-06-70 ✓

**NAMES AND DUTIES OF ASSISTANTS.**

Robert E. Raycraft, Chairman.

Claude Gresham,

Daniel R. Adams, Moundman.

Willmer E. Tomlinson, Flagman.

For administrative and executive use book "A", pp. 25, 26, R. 17, E.

**Volume**

**#**

**R0340**

BOOK A-340

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*Meanders Page.....*

## PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and .....  
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assay measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

....., Chain  
 ..... , Chain

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



WE, ..... and .....  
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

....., Mound  
 ..... , Mound

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



WE, ..... and .....  
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

....., Ax  
 ..... , Ax

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



I, ..... , do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

....., Flag  
 Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



Retracement of the West Boundary of T.22 S., R.17 E.

Survey commenced, December 17, 1905, and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 22 and 23 S., Rs. 16 and 17 E., heretofore described, in approximate latitude  $38^{\circ}51'N.$ , longitude  $110^{\circ}07'W.$ , I set off  $38^{\circ}51'N.$  on lat.arc,  $23^{\circ}18'S.$  on decl.arc, and at 3h.56m., p.m., l.m.t., determine a meridian with the solar and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

December 17, 1905.

December 18: At 1h.37m., a.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7h.30m., a.m., I lay off the azimuth of Polaris,  $1^{\circ}32'$  to the east, and mark the meridian thus determined, by cutting a small groove in the stone, set last evening, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7h.57m., a.m., l.m.t., I set off  $38^{\circ}51'N.$  on lat.arc,  $23^{\circ}19'S.$  on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs. N. of my station; this mark falls 0.4 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, about  $0'21''$  west and east of the meridian established by the Polaris observations, therefore, I conclude that the adjustments of the instrument are satisfactory.

## Retracement of the West Boundary of T. 22 S., R. 17

## CHAINS

The magnetic bearing of the true meridian at 8h. 15m., a  
is  $1N^{\circ}15'34''W.$ , the angle thus determined gives the mag.  
decl.  $15^{\circ}34'E.$

From the Tp. cor. already described, I run

N.  $0^{\circ}03'W.$ , on retrace ment line,

Bet. secs. 31 and 36.

Ascend over rocky land.

17.00 Rocky ridge, bears E. and W.

Descend over broken land.

40.38 Intersect the  $\frac{1}{4}$  sec. cor. bet. secs. 31 and 36, which is a  
sandstone,  $15 \times 12 \times 3$  ins. above ground, marked and witnessed  
as described by the surveyor general.

65.25 Wash, 1.00 ch. wide, 10 ft. deep, in hollow, 150 ft. deep, course  
W.

Ascend.

80.80 Intersect the cor. of secs. 25-30-31 and 36, which is a  
sandstone  $12 \times 10 \times 6$  ins. above ground, marked and witnessed  
as described by the surveyor general.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.80 chs.

---

N.  $0^{\circ}03'W.$ , on retrace ment line,

Bet. secs. 25 and 30.

Ascend over rocky land.

9.24 Rocky ridge, bears E. and W.

Descend.

19.75 Hollow, 75 ft. deep, course from S.E. to W.

Begin abrupt ascent over rocky land.

37.50 Rocky ridge, bears E. and W.

Abrupt descent.

40.21 Intersect the  $\frac{1}{4}$  sec. cor. bet. secs. 25 and 30, which is a  
sandstone,  $12 \times 12 \times 3$  ins. above ground, marked and witnessed  
as described by the surveyor general.

Retracement of the West Boundary of T.22 S., R.17 E.

CHAINS

63.75 Hollow, 200 ft. deep, course S.W.

Ascend over broken and rocky land.

80.45 Intersect the cor. of secs. 19-24-25 and 30, which is a lava stone, 8x8x6 ins. above ground, marked and witnessed as described by the surveyor general.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.45 chs.

N. 0°03' W., on retracement line,

Bet. secs. 19 and 24.

Ascend over rocky land.

13.00 Rocky spur, projects E.

Descend.

18.00 Hollow, 100 ft. deep, course S.E.

Ascend.

25.00 Rocky spur, projects S.E.

Descend over broken and rocky land.

40.23 Intersect the  $\frac{1}{4}$  sec. cor. bet. secs. 19 and 24, which is a sandstone, 10x8x5 ins. above ground, marked and witnessed as described by the surveyor general.

54.25 Head of hollow, course S.E.

Ascend.

57.00 Rocky spur, projects S.E.

Descend.

80.00 Hollow, 100 ft. deep, course S.E.

Ascend.

80.44 Intersect the cor. of secs. 13-18-19 and 24, which is a sandstone 16x10x8 ins. above the ground, marked and witnessed as described by the surveyor general.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

## Retracement of the West Boundary of T.22 S., R.17 E.

CHAINS	Mountainous land on 80.44 chs.  December 18: At this cor. I set off 23° 22' S. on decl. arc, and at 11h.57m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 54' N.  N. 0° 03' W., on retracement line, Bet. secs. 13 and 18.  Ascend over rocky land.  7.00 Begin abrupt ascent, bears E. and W.  17.00 Rocky ridge, bears E. and W.  Abrupt descent.  29.00 Hollow, 100 ft. deep, course E.  Ascend.  32.00 Ridge, bears N.E. and S.W.  Descend.  36.30 Head of hollow, course W.  Ascend.  38.70 Rocky ridge, bears E. and W.  Abrupt descent.  40.24 Intersect the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18, which is a sandstone, 12x8x5 ins. above ground, marked and witnessed as described by the surveyor general.  52.00 Hollow, 150 ft. deep, course N.W.  Ascend.  56.00 Rocky ridge, bears N.W. and S.E.  Descend over broken and rocky land.  80.50 Intersect the cor. of secs. 7-12-13 and 18, which is a sandstone, 12x6x5 ins. above ground, marked and witnessed as described by the surveyor general.  Land, mountainous.  Soil, rocky, 3rd. rate.  No timber.  Mountainous land on 80.50 chs.
--------	--

Retracement of the West Boundary of T.22 S., R.17 E.

CHAINS

N. $0^{\circ}03'W.$ , on a retracement line,

Bet. secs. 7 and 12.

Descend abruptly over rocky land.

3.25 Hollow, 200 ft. deep, course N.W.

Abrupt ascent.

33.00 Rocky ridge, bears E. and W.

Descend over broken and rocky land.

40.40 Intersect  $\frac{1}{4}$  sec.cor.betsecs.7 and 12, which is a sandstone, 8x6x6 ins. above ground, marked and witnessed as described by the surveyor general.

67.00 Hollow, 100 ft. deep, course N.E.

Ascend.

80.74 Intersect the cor. of secs. 1-6-7 and 12, which is a sandstone, 10x6x5 ins. above ground, marked and witnessed as described by the surveyor general.

This cor. is set on top of a rocky spur, projecting E. Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.74 chs.

---

N. $0^{\circ}03'W.$ , on a retracement line,

Bet. secs. 1 and 6.

Descend abruptly over rocky land.

14.25 Little Grande Wash, 1.50 chs. wide, 15 ft. deep, in hollow, 150 ft. deep, course N.W.

Ascend over rocky land.

39.94 Intersect the  $\frac{1}{4}$  sec.cor.betsecs.1 and 6, which is a sandstone, 10x8x3 ins. above ground, marked and witnessed as described by the surveyor general.

58.00 Road, bears E. and W.

65.00 Begin abrupt ascent over clay, bears N.W. and S.E.

68.75 Ridge, 250 ft. above  $\frac{1}{4}$  sec.cor., bears N.W. and S.E.

Gradual descent over clay.

83.77 Intersect the cor. of Tps., 21 and 22 S., Rs. 16 and 17E.,

## Retracement of the West Boundary of T.22 S., R.17 E.

## CHAINS

which is a quartzite stone, 24x8x7 ins. above the ground, marked and witnessed as described by the surveyor general.

Land, mountainous.

Soil, Rocky and clay, 3rd. rate.

No timber.

Mountainous land on 83.77 chs.

December 18, 1905.

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For general description, see Subdivisions of T.22 S., R.17 E.

For table of Latitudes and Departures, see East and North Boundaries of T.22 S., R.17 E.

Frank M. Flint

U.S. Deputy Surveyor.

**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**

**LIST OF NAMES.**

A List of the names of the individuals employed by .....  
..... United States Deputy Surveyor, to assist in running, measuring, and  
..... finding the lines and corners described in the foregoing field notes of the survey of ....  
..... ing the respective capacities in which they acted:

Final affidavits see book "T", Tp. 21 S., R. 24 E. .... Chairman,  
..... , Chairman,  
..... , Moundman,  
..... , Moundman,  
..... , Axman,  
..... , Axman,  
..... , Flagman.

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted .....  
..... United States Deputy Surveyor, in surveying all  
parts or portions of the .....  
..... of the .....  
..... meridian, ..... of ..... which are represented  
..... foregoing field notes as having been surveyed by him and under his direction; and that said survey  
..... been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
..... monuments established, according to the instructions furnished by the United States Surveyor  
..... general for .....

Final affidavits see book "T", Tp. 21 S., R. 24 E. .... Chairman,  
..... , Chairman,  
..... , Moundman,  
..... , Moundman,  
..... , Axman,  
..... , Axman,  
..... , Flagman.

scribed and sworn to before me this ..... }  
ay of ..... , 190 }  
.....

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## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, bearing date of \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of \_\_\_\_\_.

For final affidavits see book "T" Tp. 21 South, Range 14 East.

..... of the ..... meridian, in the ..... of ..... which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

*United States Deputy Surv.*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }

████████  
O SEAL O  
████████

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1905.

The foregoing field notes of the retracement of the West Boundary Township No. 22 South, Range No. 17 East of the Salt Lake Base and Meridian, Utah, \_\_\_\_\_.

executed by Harvey D. Heist and Earl V. Wocley

under his contract No. 291, dated June 3, 1905, having critically examined, and the necessary corrections and explanations made, the said field notes, a retracement of surveys they describe, are hereby approved.

*Thomas Kelly*  
United States Surveyor Ge.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

*United States Surveyor Ge.*

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4-679.

m.m.f.

BOOK A-340

"E"

FILED

MAR 15 1906

## FIELD NOTES

OF THE ~~RE~~ SURVEY OF THE

E-A-S-T and N-O-R-T-H B-O-U-N-D-A-R-I-E-S

of

Township No. 22 South,

Range No. 17 East,

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

Surveyors Heist and Earl V. Woolley, United States Deputy Surveyors  
their Contract No. 291, dated June 3, 1905.

Survey commenced December 19, 1905

Survey completed December 21, 1905.

6-101  
East S. 47° 6' 06" 70'  
South " 5' 77" 88'  
01, 1905

**NAMES AND DUTIES OF ASSISTANTS.**

..... Robert R. Raycraft, ..... Chainman  
..... Claude Gresham, ..... "  
..... Daniel R. Adams ..... Moundman  
..... Willmer E. Tomlinson ..... Flagman

For preliminary affidavits see book "B" Tp.23 S., R. 17 E.

**Volume**

**#**

**R0340**

Ar340

E<sup>6</sup> MBg 22-17

(291)  
(160)

Cast  
high  
low

06.70  
06.70

Final  
high  
low  
77.83  
11  
11  
5.77.83

BOOK A-340

## INDEX DIAGRAM.

*Township* 22 South, *Range* 17 East.

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12

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18	17	10	16	14	13	4
19	20	21	22	28	24	3
30	29	28	27	26	25	2
31	32	33	34	35	36	1

*Meanders Page*

## PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and .....  
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay a chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey,

, Cha

, Cha

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



WE, ..... and .....  
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey,

, Mou

, Mou

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



WE, ..... and .....  
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the survey,

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



I, ..... , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

Subscribed and sworn to before me this ..... }  
 day of ..... , 190 }



## Resurvey of the East Boundary of T. 22 S., R. 17 E.

## CHAINS

Survey commenced, December 19, 1905, and executed with the instrument described in book "A", of this survey. I know the instrument to be in adjustment from recent observations made December 17 and 18, 1905, and recorded in book "D", of this survey.

I begin at the reestablished cor. of Tps. 22 and 23 S., Rs. 17 and 18 E., heretofore described; lat.  $38^{\circ}51'16''$  N.; long.  $110^{\circ}00'43''$  W.

At 7h. 57m., a.m., l.m.t., I set off  $38^{\circ}51'N.$  on lat. arc,  $23^{\circ}21'S.$  on decl. arc and determine a meridian with the solar.

Thence I run

North, bet. secs. 31 and 36.

Ascend over rocky land.

24.00 Begin abrupt ascent, bears E. and W.

29.30 Rocky spur, projects S.E.

Descend.

39.50 Hollow, 100 ft. deep, course S.E.

Ascend.

40.00 Set a sandstone,  $18 \times 10 \times 6$  ins., 12 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec. cor.

45.75 Rocky ridge, bears N.W. and S.E.

Descend over broken and rocky land.

72.00 Hollow, 100 ft. deep, course N.E.

Ascend.

77.50 Rocky spur, projects N.E.

Descend over broken and rocky land.

80.00 Set a sandstone,  $20 \times 8 \times 6$  ins., 15 ins. in the ground, for reestablished cor. of secs. 25-30-31 and 36, marked with 1 notch on S. and 5 notches on N. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old sec. cor.

Land, mountainous.

## Resurvey of the East Boundary of T.22 S., R.17 E.

CHAINS	
	Soil, rocky, 3rd. rate.
	No timber.
	Mountainous land on 80.00 chs.
	North, bet. secs. 25 and 30.
	Descend over broken and rocky land.
16.00	Leave rocky land, descend over rolling clay.
40.00	Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	No trace can be found of the old $\frac{1}{4}$ sec.cor.
40.50	Hollow, 150 ft. deep, course N.W.
	Ascend.
47.50	Clay spur, projects N.W.
	Descend.
51.25	Hollow, 150 ft. deep, course N.W.
	Ascend over shale.
55.40	Spur, projects S.W.
	Descend.
61.00	Hollow, 150 ft. deep, course S.W.
	Ascend.
66.65	Ridge, bears N.E. and S.W.
	Descend.
71.50	Hollow, 100 ft. deep, course N.E.
	Ascend.
76.00	Spur, projects N.E.
	Descend.
78.00	Hollow, 100 ft. deep, course N.E.
	Ascend.
80.00	Set a sandstone, 24x15x3 ins., 18 ins. in the ground, for reestablished cor. of secs. 19-24-25 and 30, marked with 2 notches on S. and 4 notches on N. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

## Resurvey of the East Boundary of T.22 S., R.17 E.

## CHAINS

Pits impracticable.

No trace can be found of the old sec.cor.

Land, mountainous.

Soil, rocky, clay and shale, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

---

North bet. secs. 19 and 24.

Ascend abruptly over shale.

1.50 Ridge, bears N.E. and S.W.

Abrupt descent.

14.75 Hollow, 150 ft. deep, course N.E.

Abrupt ascent.

21.00 Spur, projects N.E.

Descend.

26.00 Hollow, 150 ft. deep, course N.E.

Ascend.

28.00 Spur, projects N.E.

Descend.

38.00 Enter wide hollow, 150 ft. deep, course N.W.

Enter dense greasewood brush.

40.00 Set a limestone, 24x14x3 ins., 18 ins. in the ground, for reestablished  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

45.00 Little Grande Wash, 1.00 ch.wide, 10 ft. deep, course W.

49.00 Leave hollow and greasewood, bears N.W. and S.E.

Ascend over clay.

53.00 Clay spur, projects S.W.

Descend.

54.25 Hollow, 75 ft. deep, course S.W.

Ascend.

56.60 Clay spur, projects S.W.

Descend.

## Resurvey of the East Boundary of T.22 S., R.17 E.

## CHAINS

59.50 Hollow, 75 ft. deep, course S.W.  
Ascend.  
61.15 Clay spur, projects S.W.  
Descend.  
65.35 Hollow, 100 ft. deep, course S.W.  
Abrupt ascent.  
77.00 Clay ridge, bears N.W. and S.E.  
Descend.  
80.00 Set a limestone, 18x12x5 ins., 12 ins. in the ground, for  
reestablished cor. of secs. 13-18-19 and 24, marked with  
3 notches on N. and S. edges, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
No trace can be found of the old sec.cor.  
Land, mountainous.  
Soil, clay and shale, 3rd. rate. on 69.00 chs.  
balance bottom land, 2nd. rate.  
No timber.  
Mountainous land on 80.00 chs.  
December 19: At this cor. I set off 23°24' S. on decl. arc,  
and at 11h.57m., a.m., l.m.t., observe the sun on the  
meridian, the resulting lat. is 38°54' N.

---

North, bet. secs. 13 and 18.

Descend over clay.  
1.75 Hollow, 100 ft. deep, course S.E.  
Ascend.  
6.00 Spur, projects S.E.  
Ascend.  
10.00 Hollow, 50 ft. deep, course S.E.  
Ascend.  
17.00 Ridge, bears N.W. and S.E.  
Descend.  
20.30 Hollow, 50 ft. deep, course S.E.

## Resurvey of the East Boundary of T.22 S., R.17 E.

## CHAINS

Ascend.

22.00 Spur, projects E.

Descend.

24.75 Hollow, 75 ft. deep, course S.E.

Ascend.

40.00 Set a limestone, 18x10x3 ins., 12 ins. in the ground, for reestablished  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{2}$  on W.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.

Pits impracticable.

No trace can be found of the old  $\frac{1}{4}$  sec.cor.

41.25 Ridge, bears N.W. and S.E.

Descend over rolling land, through dense artemisia.

80.00 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for reestablished cor.of secs.7-12-13 and 18, marked

T.22 S., S.7 on N.E.,

R.18 E., S.18 on S.E.,

R.17 E., S.13 on S.W., and

S.12 on N.W. face, with 4 notches on S. and 2 notches on N.edges, dig pits, 18x18x12ins., in each sec.,  $5\frac{1}{2}$  ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W.of cor. No trace can be found of the old sec.cor.

Land, mountainous and rolling.

Soil, clay 3rd. rate.

No timber.

Mountainous land or dense undergrowth on 80.00 chs.

North, bet.secs.7 and 12.

Descend over rolling land, through dense artemisia.

12.00 Hollow, 50 ft. deep, course E.

Ascend.

40.00 Set a charred cottonwood post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for reestablished  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{2}$  S 12 on W. and 7 on east. face; dig pits

## Resurvey of the East Boundary of T.22 S., R.17 E.

## CHAINS

- 18x18x12 ins., N. and S. of post, 3 ft. dist.: and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. No trace can be found of the old  $\frac{1}{4}$  sec. cor.
- 48.00 Ridge, bears E. and W.  
Descend.  
Hollow, 100 ft. deep, course W.  
Ascend over rocky land.  
Set a sandstone, 15x6x6 ins., 10 ins. in the ground, for reestablished cor. of secs. 1-6-7 and 12, marked with 5 notches on S. and 1 notch on N. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
No trace can be found of the old sec. cor.  
Land, rolling.  
Soil, clay and rocky, 3rd. rate.  
No timber.  
Dense undergrowth on 80.00 chs.
- 
- North, bet. secs. 1 and 6.  
Ascend abruptly over rocky land.  
Rocky ridge, bears E. and W.  
Descend over broken and rocky land.  
Leave rocky land, over clay.  
Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
No trace can be found of the old  $\frac{1}{4}$  sec. cor.  
Hollow, 100 ft. deep, course S.W.  
Ascend.  
Road to Little Grande, bears E. and W.  
Rocky spur, projects W.  
Descend.  
Hollow, 100 ft. deep, course N.W.  
Ascend.  
Rocky spur, projects W.

## Resurvey of the East Boundary of T.22 S., R.17 E.

## CHAINS

Descend.

76.50 Hollow, 100 ft. deep, course W.

Ascend.

82.50 Rocky ridge, bears N.W. and S.E.

Abrupt descent.

Running a distance equal to the length of the west boundary of this township, to.

86.70 Set a quartzite stone, 24x12x7 ins., 18 ins. in the ground, for reestablished cor. to Tps. 21 and 22 S., Rs. 17 and 18 E., marked.

21 S., on N.E.,

18 E., on S.E.,

22 S., on S.W., and

17 E. on N.W. face, with 6 notches on each edge, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.

Pits impracticable.

No trace can be found of the old cor. to Tps. 21 and 22 S., Rs. 17 and 18 E.

Land, mountainous.

Soil, rocky and clay, 3rd. rate.

No timber.

Mountainous land, on 86.70 chs.

December 19, 1905.

## RESURVEY OF THE NORTH BOUNDARY OF T.22 S., R.17 E.

December 20: At 7h.58m., a.m., l.m.t., I set off  $38^{\circ}56'N.$  on lat.arc.,  $23^{\circ}22'S.$  on decl.arc, and determine a meridian with the solar, at the reestablished cor. of Tps. 21 and 22 S., Rs. 17 and 18 E., heretofore described.

Thence I run parallel to S.Bdy..

$S.89^{\circ}58'W.$ , on a random line, along the N.bdy. of T.22 S., R.17 E., setting temp.  $\frac{1}{4}$  sec. and sec.cors. at intervals of 40.00 chs. and at 477.85 chs., fall 29 lks. N. of the cor. of Tps. 21 and 22 S., Rs. 16 and 17 E., heretofore describe. The falling in connection with the course, answers to a

## Resurvey of the North Boundary of T.22 S., R.17 E.

CHAINS	correction of $0^{\circ}04'$ , or $9\frac{1}{2}$ lks. S. per mile, counting from the N.E.cor. of the Tp.; therefore I run N. $89^{\circ}56' E.$ , bet. secs. 6 and 31.
	Descend over rolling clay.
31.00	Hollow, 100 ft. deep, course S.W.
	Ascend.
37.50	Ridge, bears N. and S.
	Descend.
37.85	Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor. No trace can be found of the old $\frac{1}{4}$ sec.cor.
60.00	Hollow, 50 ft. deep, course S.W.
	Ascend.
64.70	Road, bears N.E. and S.W.
69.50	Ridge, bears N. and S.
73.25	Hollow, 50 ft. deep, course S.W.
	Ascend.
77.00	Spur, projects S.
	Descend.
77.85	Set a sandstone, 18x8x4 ins., 12 ins. in the ground, for reestablished cor. of secs. 5-6-31 and 32, marked with 1 notch on W. and 5 notches on E. edges, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. No trace can be found of the old sec.cor.
	Land, mountainous.
	Soil, clay, 3rd. rate.
	No timber.
	Mountainous land on 77.85 chs.

December 20, 1905.

December 21: At 7h.58m., a.m., l.m.t., I set off.  $38^{\circ}56' N.$  on lat.arc,  $23^{\circ}22'S.$  on decl.arc, and determine a meridian with the solar, at the cor. of secs. 5-6-31 and 32.

Resurvey of the North Boundary of T.22 S., R.17 E.

## CHAINS

Thence I run

N.89°56'E., bet. secs. 5 and 32.

Descend over clay.

2.75 Hollow, 100 ft. deep, course S.

Ascend.

4.50 Clay spur, projects S.

Descend.

9.00 Hollow, 100 ft. deep, course S.E.

Abrupt ascent.

11.50 Clay spur, projects S.E.

Descend.

17.75 Hollow, 100 ft. deep, course S.

Ascend.

19.00 Clay spur, projects S.

Descend.

22.00 Enter bottom of wide hollow, course S.W.

22.50 Wash, 15 lks. wide, 8 ft. deep, course S.

30.00 Wash, 20 lks. wide, 8 ft. deep, course S.W.

32.00 Wash, 15 lks. wide, 8 ft. deep, course S.W.

40.00 Set a quartzite stone, 15x8x5 ins., 10 ins. in the ground,  
for reestablished  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, dig pits  
18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a  
mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

No trace can be found of the old  $\frac{1}{4}$  sec. cor.

42.80 Wash, 20 lks. wide, 10 ft. deep, course S.W.

44.00 Wash, 40 lks. wide, 20 ft. deep, course S.W.

45.00 Wash, 20 lks. wide, 10 ft. deep, course S.W.

Leave hollow, course S.W. Ascend.

59.50 Ridge, bears N. and S.

Descend.

70.75 Wash, 15 lks. wide, 8 ft. deep, in hollow, 100 ft. deep, course  
S.E.

Ascend.

80.00 Set a sandstone, 24x8x5 ins., 18 ins. in the ground, for

## Resurvey of the North Boundary of T.23 S., R.17 E.

## CHAINS

reestablished cor. of secs. 4-5-32 and 33, marked with 2 notches on W. and 4 notches on E. edges, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
No trace can be found of the old sec. cor.  
Land, mountainous.  
Soil, clay, 3rd. rate.  
No timber.  
Mountainous land on 80.00 chs.

---

N. 89° 56' E., bet. secs. 4 and 33.

- Ascend over rolling clay.
- 5.05 Road to Green River, bears N.W. and S.E.
- 20.00 Spur, ridge, bears N.E. and S.W.
- Abrupt descent.
- 40.00 Set a sandstone, 24x10x4 ins., 18 ins. in the ground, for reestablished  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
No trace can be found of the old  $\frac{1}{4}$  sec. cor.
- 49.70 Hollow, 100 ft. deep, course S.W.
- Ascend.
- 74.00 Spur, projects S.W.
- Descend.
- 75.75 Hollow, 75 ft. deep, course S.W.
- Ascend.
- 78.00 Spur, projects S.W.
- Descend.
- 79.70 Hollow, 30 ft. deep, course S.W.
- Ascend.
- 80.00 Set a limestone, 24x12x3 ins., 18 ins. in the ground, for reestablished cor. of secs. 3-4-33 and 34, marked with 5 notches on E. and W. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

-11-

## Resurvey of the North Boundary of T.22 S., R.17 E.

CH NS

Pits impracticable.

No trace can be found of the old sec.cor.

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

N. 89°56' E., bet. secn. 3 and 34.

Ascend over gravelly land.

.50 Ridge, bears N.E. and S.W.

Descend.

1.25 Hollow, 50 ft. deep, course S.

Ascend.

2.50 Spur, projects S.

Descend.

3.75 Hollow, 100 ft. deep, course S.E.

Ascend.

5.00 Clay spur, projects N.W.

Descend.

6.25 Hollow, 75 ft. deep, course N.

Ascend.

7.50 Spur, projects N.

Descend.

8.75 Hollow, 100 ft. deep, course N.

Ascend.

10.00 Spur, projects N.

Descend.

11.25 Hollow, 75 ft. deep, course N.

Ascend.

12.50 Ridge, bears N.E. and S.W.

Descend.

13.75 Hollow, 100 ft. deep, course S.

Ascend.

15.00 Clay spur, projects S.

Abrupt descent.

## Resurvey of the North Boundary of T.22 S., R.17 E.

CHAINS	
38.65	Wash, 50 lks. wide, 25 ft. deep, in hollow, 150 ft. deep, course S.W. Ascend.
40.00	Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. No trace can be found of the old $\frac{1}{4}$ sec.cor.
80.00	Set a limestone, 18x12x4 ins., 12 ins. in the ground, for reestablished cor. of secs. 2-3-34 and 35, marked with 4 notches on W. and 2 notches on E.edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. No trace can be found of the old sec.cor. Land, mountainous. Soil, gravelly and clay. No timber. Mountainous land on 80.00 chs.
	December 21: At this cor. I set off $23^{\circ}25'$ S. on decl.arc, and at 11h.58m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}56'N.$
	N. $89^{\circ}56'E.$ , bet. secs. 2 and 35. Ascend over rolling clay.
37.50	Ridge, 150 ft. above sec.cor., bears N.W. and S.E. Descend.
40.00	Set a limestone, 18x10x6 ins., 12 ins. in the ground, for reestablished $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. No trace can be found of the old $\frac{1}{4}$ sec.cor.
41.75	Hollow, 100 ft. deep, course N. Ascend.
46.00	Ridge, bears N.E. and S.W. Abrupt descent.

## Resurvey of the North Boundary of T.22 S., R.17 E.

## CHAINS

56.00 Hollow, 150 ft. deep, course S.

Abrupt ascent.

65.60 Clay spur, projects S.

Descend.

73.50 Clay knoll, 100 ft. high, on line.

79.50 Clay knoll, 100 ft. high, on line.

80.00 On steep east slope of knoll.

Set a limestone, 20x8x4 ins., 15 ins. in the ground, for reestablished cor. of secs. 1-2-35 and 36, marked with 1 notch on E. and 5 notches on W. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

No trace can be found of the old sec.cor.

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

---

N. $89^{\circ}56' E.$ , bet. secs. 1 and 36.

Descend over steep clay slope.

.50 Foot of abrupt descent.

Over level land.

5.00 Begin abrupt ascent.

10.00 Clay bluff, 100 ft. high, bears N. and S.

Descend.

13.75 Road to Little Grande, bears N.W. and S.E., in bottom of hollow, 100 ft. deep, course N.W.

Ascend.

36.00 Clay spur, projects N.W.

Descend.

39.00 Hollow, 75 ft. deep, course N.W.

Ascend.

40.00 Set a sandstone, 32x4x4 ins., 2 $\frac{1}{4}$  ins. in the ground, for reestablished  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N. face, and raise a

## Resurvey of the North Boundary of T.22 S., R.17 E.

CHAINS	mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. No trace can be found of the old ¼ sec.cor. Ridge, bears N.W. and S.E.
40.50	Descend.
47.60	Hollow, 100 ft. deep, course N.W. Ascend.
61.70	Ridge, bears N.W. and S.E. Descend.
67.00	Hollow, 100 ft. deep, course N.W. Ascend.
71.75	Ridge, bears N.W. and S.E. Descend.
75.00	Hollow, 100 ft. deep, course N. Ascend.
78.00	Spur, projects N. Descend.
80.00	The cor.of Tps.21 and 22 S., Rs.17 and 18 E. Land, mountainous. Soil, clay and rocky, 3rd. rate. No timber. Mountainous land on 80.00 chs.

December 21, 1905.

For general description, see Subdivisions of T.22 S., R.17 E.

## BOUNDARIES OF T.22 S., R.17 E.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes	Departures
		chs.	chs.	chs.
W. Bdy.	N. 0°03' W.	486.70	486.70	.42
N. Bdy.	N. 89°56' E.	477.85	.53	477.85
E. Bdy.	South	486.70	486.70	
S. Bdy.	S. 89°58' W.	478.05	.28	478.05
Convergency				.58
Totals		487.25	486.98	478.43
Error in lat.		486.98	0.27	478.43
			Error in dep.	0.04

*Harvey H. Fife*  
U.S. Deputy Surveyor.

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_

wing the respective capacities in which they acted:

Final affidavits see book "P", Tp. 22 S., R. 15 E. \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_  
 meridian, \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been made in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General for \_\_\_\_\_

Final affidavits see book "P", Tp. 22 S., R. 15 E. \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Chainman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Moundman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Axman.  
 \_\_\_\_\_, Flagman.

scribed and sworn to before me this \_\_\_\_\_  
 day of \_\_\_\_\_, 190 \_\_\_\_\_ }



## FINAL OATH OF UNITED STATES DEPUTY

United States Deputy

I solemnly swear that in performance of a contract received from  
United States Surveyor General for

the day of 1905, I have well, faithfully, and truly, in  
proper person, and in strict conformity with the instructions furnished by the United States  
Surveyor General for the Manual of Surveying Instructions, and the laws  
of the United States, surveyed all three parts or portions of

my first certificate per book Spec. Top. 22 S., R. 15 E.

and do further swear that the same are true and correct to the best of my knowledge and belief.

meridian, in the state of , which are represented  
Surveying field notes as having been surveyed by me, and under my direction; and I do further  
swear that all the corners of said survey have been established and perpetuated in strict accordance  
with the Manual of Surveying Instructions, and the special written instructions of the United States  
Surveyor General for and in the specific manner described in the field notes, and  
the foregoing are the original field notes of such survey.

United States Deputy

Subscribed by said \_\_\_\_\_ and sworn to before me }  
this \_\_\_\_\_ day of 1905 }



## APPROVAL.

## OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Salt Lake City, Utah, March 18, 1905

RE:

The foregoing field notes of the survey of the East and North Boundary of  
Territory No. 32 South, Range No. 17 West of the Salt Lake Range and  
Division, Utah.

Surveyed by Harry D. Jones and Earl V. Woolley  
under Contract No. 221, dated June 3, 1905, having  
recently rechecked, and the necessary corrections and explanations made, the said field notes,  
so far as they appear, are hereby approved.

Harry D. Jones  
United States Surveyor

I certify that the foregoing transcript of the field notes of the above-described surveys is  
correct and has been correctly copied from the original notes on file in this

United States Surveyor

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4-679.

M.M.L  
R.J.B"F"  
BOOK A-340

FILED

MAR 15 1906

## FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N-S

of

Township No. 22 South,

Range No. 17 East.

Of the Salt Lake Base and Meridian,  
in the state of Utah.

AS SURVEYED BY

Surveyor D. Heist, and Earl V. Woolley, United States Deputy Surveyor,  
Under his Contract No. 291, dated June 3, 1905  
Survey commenced December 22, 1905  
Survey completed December 30, 1905

Log 586193 ✓  
Elev 14169 ✓  
Temp 8.91 ✓

**NAMES AND DUTIES OF ASSISTANTS.**

Robert R. Raycraft, Chainman,

Claude Gresham, "

Daniel R. Adams Moundman

Willmer E. Tomlinson Flagman

For preliminary affidavits see book "C" Tp. 23 S., R. 17 E.

**Volume**

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**#**

**R0340**

BOOK A-340

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Meanders Page.....

## PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and .....  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we measure, to the best of our skill and ability, and in accordance with instructions given us, in the

Subscribed and sworn to before me this ..... }  
day of ..... , 190 } , C



WE, ..... and .....  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the

Subscribed and sworn to before me this ..... }  
day of ..... , 190 } , M



WE, ..... and .....  
do solemnly swear that we will well and truly perform the duties of axmen in the establishment and other duties, according to instructions given us, to the best of our skill and ability, in the

Subscribed and sworn to before me this ..... }  
day of ..... , 190 } , M



I, ..... do solemnly swear that I will well perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

Subscribed and sworn to before me this ..... }  
day of ..... , 190 } , C



## Subdivisions of T. 22 S., R. 17 E.

CHAINS	<p>Survey commenced, December 22, 1905, and executed with the instrument described in book "A" of this survey.</p> <p>I know the instrument to be in adjustment, from recent observations made, December 17 and 18, 1905 and recorded in book "D", of this survey.</p> <p>At 7h.59m., a.m., l.m.t., I set off <math>38^{\circ}51'N.</math> on lat.arc, <math>23^{\circ}22'S.</math> on decl.arc, and determine a meridian with the solar, at the reestablished cor. of secs. 1-2-35 and 36, heretofore described on the S.bdy. of the Tp.</p> <p>Thence I run</p> <p style="text-align: center;"><math>N.0^{\circ}01'W.</math>, Bet. secs. 35 and 36.</p> <p>Ancend abruptly over broken sandstone ledges, and boulders.</p>
19.56	Rocky ridge, bears N.W. and S.E. Descend.
28.25	Hollow, 100 ft. deep, course N.E. Ancend.
31.00	Rocky spur, projects N.E. Descend.
36.00	Hollow, 100 ft. deep, course N.E. Ancend.
40.00	Set a limestone, $20 \times 8 \times 6$ in., 15 in. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
42.00	Rocky spur, projects N.E. Descend.
48.50	Hollow, 100 ft. deep, course N.E. Ancend.
53.00	Ridge, bears N.E. and S.W. Descend.
80.00	Set a sandstone, $18 \times 12 \times 3$ in., 12 in. in the ground, for cor. of secs. 25-26-35 and 36, marked with 1 notch on S. and E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

## Subdivisions of T. 22 S., R. 17 E.

CHAINS.	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	No timber.
	Mountainous land on 80.00 chs.
	<hr/>
	N. 89° 58' E., on a random line, bet. secs. 25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect E. bdy. of Tp., 3 lks. S. of the reestablished cc. of secs. 25-30-31 and 36, heretofore described. Thence I run
	S. 89° 57' W., on a true line,
	Bet. secs. 25 and 36.
	Ascend over rocky land.
6.00	Rocky spur, projects N.
	Descend.
11.50	Hollow, 100 ft. deep, course N.
	Ascend.
24.25	Ridge, bears N.E. and S.W.
	Descend.
29.50	Hollow, 150 ft. deep, course N.E.
	Ascend.
32.00	Ridge, bears N.E. and S.W.
	Descend.
33.50	Hollow, 150 ft. deep, course N.E.
	Ascend.
36.50	Rocky spur, projects N.E.
	Descend.
39.00	Hollow, 150 ft. deep, course N.E.
	Ascend.
40.02	Set a sandstone, 20x9x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
49.75	Ridge, bears N.E. and S.W.

## Subdivisions of T. 22 S., R. 17 E.

CHAINS	Descend.
62.00	Hollow, 150 ft. deep, course N.E.
	Ascend.
69.00	Ridge, bears N.E. and S.W.
	Descend.
80.04	The cor. of secs. 25-26-35 and 36.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	No timber.
	Mountainous land on 80.04 chs.
<hr/>	
	N. 0° 01' W., bet. secs. 25 and 26.
	Descend over rocky land, through dense artemisia.
28.10	Road to Green River, bears N.E. and S.W., in hollow, 100 ft. deep, course S.W.
	Ascend.
34.00	Rocky ridge, bears E. and W.
	Descend.
40.00	Set a sandstone, 18x10x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
40.35	Same road, bears N.W. and S.E.
61.75	Same road, bears N.E. and S.W.
72.50	Same road, bears N.W. and S.E.
80.00	Set a quartzite stone, 20x8x6 ins., 15 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked with 2 notches on S. and 1 notch on E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	No timber. Undergrowth dense artemisia.
	Mountainous land and dense undergrowth 80.00 chs.
	December 22: At this cor. I set off 23° 25' S. on decl. arc,

## Subdivisions of T.22 S., R.17 E.

## CHAINS

and at 11h.59m., a.m., l.m.t., observe the sun on the meridian; the resulting lat. is  $38^{\circ}53'N.$

$N.89^{\circ}57'E.$ , on a random line, bet. secs. 24 and 25.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.08 Intersect E.bdy. of Tp., 5 lks. N. of the reestablished cor. of secs. 19-24-25 and 30, heretofore described.

Thence I run

$S.89^{\circ}59'W.$ , on a true line,

Bet. secs. 24 and 25.

Ascend abruptly over shale.

3.00 Ridge, bears N.E. and S.W.

Abrupt descent.

9.00 Hollow, 100 ft. deep, course N.E.

Ascend.

14.40 Clay knoll, 100 ft. high, on top of ridge, bears N. and S.

Descend.

40.04 Set a limestone, 24x8x4 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 ft. base, 2 ft. high, N. of cor.

58.00 Hollow, 150 ft. deep, course N.W.

Ascend.

80.08 The cor. of secs. 23-24-25 and 26.

Land, mountainous.

Soil, shale and clay, 3rd. rate.

No timber.

Mountainous land on 80.08 chs.

$N.0^{\circ}01'W.$ , bet. secs. 23 and 24.

Descend over rolling, rocky land.

40.00 Set a limestone, 15x12x4 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth,

## Subdivisions of T. 22 S., R. 17 E.

## CHAINS

$5\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

43.35 Hollow, 150 ft. below sec. cor., course N.W.

Ascend.

45.00 Spur, projects N.W.

Descend.

46.50 Hollow, 30 ft. deep, course N.W.

Ascend.

47.75 Spur, projects N.W.

Descend.

50.00 Enter dense greasewood brush, in bottom of hollow, 200 ft. deep, course W.

Over level bottom of hollow.

56.00 Little Grande Wash, 1.00 ch. wide, 10 ft. deep, course N.W.

65.00 Leave greasewood brush.

75.00 Leave hollow, begin abrupt ascent, bears N.W. and S.E.

78.00 Clay spur, projects S.W.

Descend along steep west slope.

80.00 Set a limestone,  $30 \times 10 \times 3$  ins., 22 ins. in the ground, for cor. of secs. 13-14-23 and 24, marked with 3 notches on S. and 1 notch on E. edges, and raise a mound of stone, 2 ft. b se  $1\frac{1}{2}$  ft. high. W. of cor.

Pits impracticable.

Land, mountainous.

Soil, bottom land on 25.00 chs. 2nd. rate.

balance, rocky and clay 3rd. rate.

No timber; undergrowth dense greasewood brush.

Mountainous land or dense undergrowth on 80.00 chs.

N. $89^{\circ}59' E.$ , on a random line, bet. secs. 13 and 24.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect E. bdy. of Tp., 3 lks. S. of the reestablished cor. of secs. 13-18-19 and 24, heretofore described.

Thence I run

S. $89^{\circ}58' W.$ , on a true line,

Bet. secs. 13 and 24.

## Subdivisions of T.22 S., R.17 E.

CHAINS	
	Ascend over clay.
9.00	Ridge, bears N.W. and S.E.
	Descend.
22.00	Hollow, 100 ft. deep, course S.W.
	Ascend.
39.70	Ridge, bears N.E. and S.W.
	Descend.
40.01	Set a quartzite stone, 20x10x3 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
61.00	Hollow, 125 ft. deep, course S.W.
	Ascend.
76.00	Spur, projects S.W.
	Abrupt descent.
80.02	The cor. of secs. 13-14-23 and 24.
	Land, mountainous.
	Soil, clay, 3rd. rate.
	No timber.
	Mountainous land on 80.02 chs.

December 22, 1905.

December 23: At 7h.59m., a.m., l.m.t., I set off  $38^{\circ}54'N.$  on lat.arc,  $23^{\circ}22'S.$  on decl.arc, and determine a meridian with the solar, at the cor.of secs. 13-14-23 and 24.

Thence I run

N. $0^{\circ}01'W.$ , bet.secs. 13 and 14.

6.25	Descend abruptly over shale.
	Hollow, 150 ft. deep, course S.W.
	Abrupt ascent.
23.50	Ridge, bears N.E. and S.W.
	Descend.
40.00	Set a limestone, 18x8x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W.face, dig pits, 18x18x12 ins.,

## Subdivisions of T. 22 S., R. 17 E.

CHAINS	N. and S. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
41.75	Hollow, 100 ft. deep, course S.W. Ascend over rolling clay.
80.00	Set a limestone, $15 \times 10 \times 8$ ins., 10 ins. in the ground, for cor. of secs. 11-12-13 and 14, marked with 4 notches on S. and 1 notch on E. edges, dig pits, $18 \times 18 \times 12$ ins., in each sec., $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, mountainous. Soil, clay and shale, 3rd. rate. No timber. Mountainous land on 80.00 chs.
	N. $89^{\circ}58' E.$ , on a random line, bet. secw. 12 and 13
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect E. bdy. of Tp., at the reestablished cor. of secs. 7-12-13 and 18, heretofore described. Thence I run S. $89^{\circ}58' W.$ , on a true line, Bet. secs. 12 and 13. Ascend over rolling clay.
39.96	Set a shale rock, $24 \times 8 \times 3$ ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, dig pits, $18 \times 18 \times 12$ ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor..
40.50	Clay spur, projects N. Descend.
45.00	Hollow, 50 ft. deep, course N.W. Ascend.
54.50	Ridge, bears N.W. and S.E. Descend.
79.92	The cor. of secs. 11-12-13 and 14. Land, mountainous. Soil, clay, 3rd. rate.

## Subdivisions of T. 22 S., R. 17 E.

## CHAINS

No timber.

Mountainous land on 79.92 chs.

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N. 0° 01' W., bet. secs. 11 and 12.

Ascend over rolling clay land.

13.00 Ridge, bears N.W. and S.E.

Descend.

40.00 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked S 11 on W. face and 12 on E. face, dig pits 18x18x12 ins., N. and S. o post, 3 ft. dist., and raise a mound of earth,  $5\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

42.00 Hollow, 50 ft. deep, course E.

Ascend.

51.00 Ridge, bears E. and W.

Descend.

80.00 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked T. 22 S., S. 1 on N.E.,  
R. 17 E., S. 12, on S.E.,  
S. 11, on S.W., and  
S. 2 on N.W. face, With 5 notches on S. and 1 notch on E. edges, dig pits, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

December 23: At this cor. I set off 23° 25'S. on decl. arc and at 11h.59m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 56' N.

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## Subdivisions of T.22 S., R.17 E.

CHAINS	N. $89^{\circ}58' E.$ , on a random line, bet. secs. 1 and 12.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
.79.94	Intersect E.bdy. of Tp., 7 lks. N. of the reestablished cor. of secs. 1-6-7 and 12, heretofore described.
	Thence I run
	N. $89^{\circ}59' W.$ , on a true line,
	Bet. secs. 1 and 12.
	Descend over gravel spur, projecting S.
51.75	Enter bottom of hollow, 100 ft. deep, course N.W.
56.75	Leave hollow, course N.W.
	Ascend over broken land.
39.97	Set a limestone, 15x6x6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
61.00	Clay spur, projects N.E.
	Descend.
79.94	The cor. of secs. 1-2-11 and 12.
	Land, mountainous.
	Soil, gravelly and clay, 3rd. rate.
	No timber.
	Mountainous land on 79.94 chs.
	N. $0^{\circ}01' W.$ , on a random line, bet. secs. 1 and 2.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
86.66	Intersect N.bdy. of Tp., 3 lks. E. of the reestablished cor. of secs. 1-2-35 and 36, heretofore described.
	Thence I run
	S. $0^{\circ}02' E.$ , on a true line,
	Bet. secs. 1 and 2.
	Descend over broken clay hills.
21.00	Hollow, 100 ft. deep, course W.
	Ascend.
34.00	Ridge, bears E. and W.
	Descend.

## Subdivisions of T.22 S., R.17 E.

IN	
40.00	Hollow, 50 ft. deep, course W.
	Ascend.
44.00	Clay spur, projects W.
	Descend.
46.66	Set a limestone, 15x8x6 ins., 10 ins. in the ground, for rec.cor., marked $\frac{1}{4}$ on W. face, dig pit, 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
61.00	Hollow, 100 ft. deep, course N.W.
	Ascend over broken land.
86.66	The cor. of secs. 1-2-11 and 12.
	Land, mountainous.
	Soil, clay, 3rd. rate.
	No timber.
	Mountainous land on 86.66 chs.

December 23, 1905.

December 24: At 8 a.m., 1.m.t., I set off  $38^{\circ}51'N.$  on lat. arc,  $23^{\circ}21'S.$  on decl. arc, and determine a meridian with the solar, at the reestablished cor. of secs. 2-3-34 and 35 heretofore described, on the S.bdy. of the Tp.

Thence I run

$N.0^{\circ}01'W.$ , bet. secs. 34 and 35.

Ascend abruptly over broken sandstone ledges.

13.00	Rocky spur, projects S.E.
	Descend.
17.00	Hollow, 100 ft. deep, course S.E.
	Abrupt ascent.
40.00	Point for cor. falls on a smooth sandstone floor; I cut a cross(X), at exact point for $\frac{1}{4}$ sec.cor., mark $\frac{1}{4}$ on W. side of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
	Pits impracticable.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

- 56.00 Sandstone ridge, bears N.W. and S.E.  
Descend.  
80.00 Set a sandstone, 20x10x8 ins., 15 ins. in the ground, for cor. of secs. 26-27-34 and 35, marked with 1 notch on S. and 2 notches on E. edges; and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, rocky, 3rd. and 4th. rate.  
No timber.  
Mountainous land on 80.00 chs.

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N.  $89^{\circ}58' E.$ , on a random line, bet. secs. 26 and 35.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.08 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 25-26-35 and 36.  
Thence I run

S.  $89^{\circ}59' W.$ , on a true line,

Bet. secs. 26 and 35.

- Descend over rocky land, through dense artemisia.  
5.30 Hollow, 100 ft. deep, course N.  
Ascend.  
21.90 Rocky spur, projects N.  
Begin abrupt descent.  
34.50 Road to Green River, bears N.E. and S.W., in bottom of hollow, 200 ft. below top of spur, course S.W.  
Ascend.  
38.00 Spur, projects S.W.  
Descend.  
40.04 Set a sandstone, 22x12x5 ins., 16 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.  
41.00 Hollow, 150 ft. deep, course S.W.  
Abrupt ascent.

## Subdivisions of T. 22 S., R. 17 E.

- 64.50 Rocky spur, projects N.  
Abrupt descent.  
66.00 Hollow, 150 ft. deep, course N.W.  
Ascend.  
66.50 Same road, bears N.W. and S.E.  
80.08 The cor. of secns. 26-27-34 and 35.  
Land, mountainous.  
Soil, rocky, 3rd. rate.  
No timber. Undergrowth dense artemisia.  
Mountainous land covered with dense undergrowth on  
80.08 chs.

N. 0°01' W., bet. secns. 26 and 27.

Descend over rocky land.

- 19.50 Road to Green River, bears N.W. and S.E., in bottom of hollow, 150 ft. deep, course N.W.  
14.00 Begin abrupt ascent over rocky land, bearing N.W. and S.E.  
25.00 Rocky ridge, bears N.W. and S.E.  
Descend.  
40.00 Set a sandstone, 20x12x5 in., 15 ins. in the ground, for sec. cor., marked + on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
55.00 Hollow, 150 ft. deep, course N.E.  
Begin abrupt ascent over sandstone ledges.  
60.45 Sandstone ridge, bears N.E. and S.W.  
Abrupt descent, along hollow, course N.  
80.00 Set a sandstone, 20x10x3 in., 15 ins. in the ground, for cor. of secns. 28-29-30 and 27, marked with 2 notches on S. and E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, rocky, 3rd. and 4th. rate.  
No timber.  
Mountainous land on 80.00 chs.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

December 24: At this cor. I set off  $23^{\circ}24' S.$  on decl. arc, and at 12 M., l.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ}53' N.$

- N. $89^{\circ}59' E.$ , on a random line, bet. secs. 23 and 26  
 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
 80.10 Intersect N. and S. line, 7 lks. S. of the cor. of secs.  
 23-24-25 and 26.  
 Thence I run  
 S. $89^{\circ}56' W.$ , on a true line,  
 Bet. secs. 23 and 26.  
 Ascend over rocky land.  
 .80 Road to Green River, bears N. and S.  
 2.00 Spur, projects N.  
 Descend.  
 4.50 Hollow, 30 ft. deep, course N.  
 Ascend.  
 5.60 Spur, projects N.  
 Descend.  
 6.75 Hollow, 50 ft. deep, course N.E.  
 Ascend.  
 13.25 Ridge, bears N.W. and S.E.  
 Descend.  
 22.75 Hollow, 100 ft. deep, course N.  
 Ascend.  
 28.50 Rocky spur, projects N.  
 Descend.  
 35.30 Hollow, 150 ft. deep, course N.  
 Abrupt ascent.  
 38.60 Spur, projects N.E.  
 Descend.  
 39.75 Hollow, 50 ft. deep, course N.E.  
 Ascend.  
 40.05 Set a quartzite stone, 20x6x5 ins., 15 ins. in the ground; for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of

## Subdivisions of T.22 S., R.17 E.

	CHAINS	stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
44.50		Rocky spur, projects N. Descend.
46.00		Hollow, 50 ft. deep, course N. Ascend.
47.00		Spur, projects N. Descend.
49.50		Hollow, 100 ft. deep, course N.W. Ascend.
54.00		Rocky spur, projects N.W. Descend.
58.00		Hollow, 150 ft. deep, course N.W. Ascend.
67.00		Rocky ridge, bears N. and S. Abrupt descent.
70.00		Hollow, 150 ft. deep, course N. Abrupt ascent.
74.00		Rocky spur, projects N. Abrupt descent.
80.10		The cor. of secs. 22-23-26 and 27, in bottom of hollow, 150 ft. deep, course N. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 80.10 chs.

N.0°01'W., bet. secs. 22. and 23.

	Descend in hollow, course N.
2.50	Leave hollow, course N.E. Abrupt ascent.
9.00	Rocky spur, projects N.E. Descend.
12.50	Hollow, 100 ft. deep, course N.E. Ascend.

## Subdivisions of T. 22 S., R. 17 E.

## CHAINS

- 28.75 Spur, projects N.E.  
Descend.  
40.00 Set a quartzite stone, 18x8x6 ins., 12 ins. in the ground, f r  
 $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone  
2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.  
Pits impracticable.  
41.00 Hollow, 100 ft. deep, course N.W.  
Ascend.  
46.00 Spur, projects N.W.  
Descend.  
48.50 Hollow, 100 ft. deep, course N.W.  
Abrupt ascent.  
50.00 Spur, projects N.W.  
Descend.  
58.00 Hollow, 100 ft. deep, course N.E.  
Ascend.  
63.00 Spur, projects N.E.  
Descend.  
68.50 Hollow, 100 ft. deep, course N.E.  
Ascend.  
69.70 Spur, projects N.E.  
Descend.  
76.00 Enter dense greasewood brush in bottom of hollow, 200 ft.  
deep, course N.W.  
Over level bottom of hollow.  
80.00 Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for  
cor.of secs. 14-15-22 and 23, marked with 3 notches on S.  
and 2 notches on E.edges, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W.of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, rocky on 76.00 chs., 3rd. rate.  
balance, bottom land, 2nd. rate.  
No timber. Undergrowth dense greasewood brush.  
Mountainous land, or land covered with dense undergrowth  
on 80.00 chs.

## Subdivisions of T.22 S., R.17 E.

CHAINS	
	N. $89^{\circ}56' E.$ , on a random line, bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 13-14-23 and 24.
	Thence I run
	S. $89^{\circ}59' W.$ , on a true line,
	Bet. secs. 14 and 23.
	Descend abruptly over shale.
3.25	Hollow, 150 ft. deep, course S.W.
	Abrupt ascent.
8.40	Spur, projects S.
	Abrupt descent.
14.00	Foot of abrupt descent, bears N.W. and S.E.
	Enter bottom of hollow, 200 ft. deep, course N.W.
	Gradual descent in bottom of hollow.
40.02	Set a quartzite stone, 15x8x7 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, dig pits, 18x18x12 ins. E. and W. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
53.40	Wash, 10 lks. wide, 15 ft. deep, course S.W.
68.00	Enter dense greasewood brush.
68.50	Road to Green River, bears N.W. and S.E.
79.30	Little Grande Wash, 1.00 ch. wide, 15 ft. deep, course N.W.
80.04	The cor. of secs. 14-15-22 and 23.
	Land, mountainous and bottoms.
	Soil, rocky on 14.00 chs., 3rd. rate.
	balance, bottom land, 2nd. rate.
	No timber; Undergrowth dense greasewood brush.
	Mountainous land or dense undergrowth on 80.04 chs.

December 24, 1905.

December 25: At 8 a.m., 1.m.t., I set off  $38^{\circ}54' N.$  on lat. arc,  $23^{\circ}20' S.$  on decl. arc, and determine a meridian with the solar, at the cor. of secs. 14-15-22 and 23.

Thence I run

## Subdivisions of T.22 S., R.17 E.

## CHAINS

N.0°01'W., bet. secs. 14 and 15.

Over level bottom land, through dense greasewood brush.

2.00 Little Grande Wash, 1.00 ch. wide, 15 ft. deep, course N.W.

9.15 Road to Green River, bears N.W. and S.E.

Leave greasewood brush.

23.00 Begin abrupt ascent over clay land, bearing N.W. and S.E.

35.50 Ridge, 200 ft. above sec.cor., bears N.W. and S.E.

Descend over rolling clay land.

40.00 Set a limestone, 28x12x3 ins., 21 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

80.00 Set a limestone, 30x8x3 ins., 22 ins. in the ground, for cor. of secs. 10-11-14 and 15, marked with 4 notches on S. and 2 notches on E. edges, dig pit, 18x18x12 ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous and bottom land.

Soil, bottom land on .23.00 chs., 2nd. rate.

balance clay, 3rd. rate.

Undergrowth dense greasewood.

No timber.

Mountainous land or dense undergrowth on .80.00 chs.

N.89°59' E., on a random line, bet. secs. 11 and 14.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.02 Intersect N. and S. line, 5 lks. S. of the cor. of secs.

11-12-13 and 14.

Thence I run

S.89°57' W., on a true line,

Bet. secs. 11 and 14.

Descend over clay land.

.30 Hollow, 50 ft. deep, course S.

Ascend.

30.25 Ridge, bears N.E. and S.W..

## Subdivisions of T.22 S., R.17 E.

## CHAINS

- Descend.
- 40.01 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}S11$  on N. and 14 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- 80.02 The cor. of secs. 10-11-14 and 15.
- Land, mountainous.
- Soil, clay, 3rd. rate.
- No timber.
- Mountainous land on 80.02 chs.
- 
- N.0°01'W., bet. secs. 10 and 11.
- Descend over clay land.
- 1.50 Hollow, 50 ft. deep, course W.
- Ascend.
- 13.00 Ridge, bears E. and W.
- Descend.
- 20.65 Hollow, 75 ft. deep, course S.W.
- Ascend.
- 23.00 Spur, projects S.W.
- Descend.
- 30.00 Hollow, 100 ft. deep, course S.W.
- Ascend.
- 40.00 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}S10$  on W. and 11 on E. face, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 41.00 Ridge, bears E. and W.
- Descend.
- 53.00 Hollow, 50 ft. deep, course W.
- Ascend.
- 68.00 Ridge, bears N.W. and S.E.
- Descend.

## Subdivisions of T. 22 S., R. 17 E.

## CHAINS

80.00 Set a limestone, 30x10x4 ins., 22 ins. in the ground, for cor. of secs. 2-3-10 and 11, marked with 5 notches on S. and 2 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor..

Pits impracticable.

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

December 25: At this cor. I set off  $23^{\circ}23' S.$  on decl. arc, and at 12 M., l.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ}56' N.$

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N. $89^{\circ}57' E.$ , on a random line, bet. secs. 2 and 11.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.00 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 1-2-11 and 12.

Thence I run

N. $89^{\circ}58' W.$ , on a true line,

Bet. secs. 2 and 11.

Descend over clay land.

4.25 Hollow, 100 ft. deep, course N.

Ascend.

20.40 Ridge, bears N.W. and S.E.

Descend.

34.25 Hollow, 100 ft. deep, course N.

Ascend.

40.00 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4} S 2$  on N. face, and 11 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base  $1\frac{1}{2}$  ft. high, N. of cor..

55.00 Ridge, bears N.W. and S.E.

Descend.

## Subdivisions of T. 22 S., R. 17 E.

CHAINS	
70.00	Hollow, 100 ft. deep, course N.W. Ascend.
80.00	The cor. of secs. 2-3-10 and 11. Land, mountainous. Soil, clay, 3rd. rate. No timber. Mountainous land on 80.00 chs.
	N. 0° 01' W., on a random line, bet. secs. 2 and 3.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
86.62	Intersect N. bdy. of Tp., 5 lks. W. of the reestablished cor. of secs. 2-3-34 and 35, heretofore described. Thence I run S. 0° 01' W., on a true line, Bet. secs. 2 and 3.
	Ascend over clay land.
4.60	Ridge, bears E. and W. Descend.
21.25	Hollow, 50 ft. deep, course W. Ascend.
28.90	Spur, projects W. Descend.
37.00	Hollow, 100 ft. deep, course N.W. Ascend.
46.62	Set a redwood post, 3 ft. long, 3 ins., sq., with marked stone 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S 3 on W. and 2 on E. faces, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
75.30	Ridge, bears N.W. and S.E. Descend.
80.00	Hollow, 100 ft. deep, course N.W. Ascend.
86.62	The cor. of secs. 2-3-10 and 11.

Subdivisions of T.22 S., R.17 E.

CHAINS

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 86.62 chs.

December 25, 1905.

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December 26: At 8h.01m., a.m., l.m.t., I set off 38°51' N.  
on lat.arc., 23°18'S. on decl.arc, and determine a meridian  
with the solar, at the reestablished cor. of :secs. 34-33  
and 34, heretofore described, on the S.bdy. of the Tp.,  
Thence I run

N.0°02'W., bet. secs. 33 and 34.

Descend through dense greasewood brush.

3.75 Hollow, 200 ft. deep, course W.

Ascend.

22.50 Begin abrupt ascent, bears N.E. and S.W.

26.45 Spur, projects E.

Descend.

36.00 Hollow, 100 ft. deep, course E.

Abrupt ascent.

40.00 Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for  $\frac{1}{4}$   
sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

40.50 Spur, projects E..

Descend.

46.00 Hollow, 150 ft. deep, course E.

Begin abrupt ascent over broken sandstone ledges.

70.00 Sandstone spur, projects E.

Descend.

80.00 Set a sandstone, 24x8x4 ins., 18 ins. in the ground, for  
cor. of secs. 27-28-33 and 34, marked with 1 notch on S.  
and 3 notches on E. edges, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

## Subdivisions of T. 22 S., R. 17 E.

CHAINS	<p>Land, mountainous.</p> <p>Soil, bottom land on 22.50 chs., 2nd. rate.</p> <p>balance rocky, 3rd. and 4th. rate.</p> <p>Undergrowth dense greasewood.</p> <p>No timber,</p> <p>Mountainous land or dense undergrowth on 80.00 chs.</p> <hr/> <p>N. 89° 58' E., on a random line, bet. secs. 27 and 34.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 26-27-34 and 35.
	Thence I run
	S. 89° 56' W., on a true line,
	Bet. secs. 27 and 34.
	Ascend over rocky land, through dense artemisia.
20.50	Sandstone ridge, bears N.W. and S.E.
	Descend abruptly over broken sandstone ledges and sandstone boulders.
39.98	Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
53.00	Road to Green River, bears N.E. and S.W., in bottom of hollow, 200 ft. deep, course S.W.
	Abrupt ascent over broken sandstone ledges.
79.96	The cor. of secs. 27-28-33 and 34..
	Land, mountainous.
	Soil, rocky, 3rd. and 4th. rate.
	Undergrowth dense artemisia.
	No timber;
	Mountainous land and dense undergrowth on 79.96 chs.
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	N. 0° 03' W., bet. secs. 27 and 28.
	Descend over rocky land.
3.00	Hollow, 150 ft. deep, course E.
	Abrupt ascent over broken sandstone ledges.
13.00	Sandstone ridge, bears E. and W.

## Subdivisions of T. 22 S., R. 17 E.

## CHAINS

Abrupt descent.

31.00 Hollow, 150 ft. deep, course N.E.

Ascend.

39.60 Spur, projects E.

Descend.

40.00 Set a sandstone, 26x8x8 ins., 19 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

57.00 Hollow, 200 ft. deep, course S.E.

Begin abrupt ascent over broken sandstone ledges, bearing N.W. and S.E.

75.00 Rocky ridge, bears N.W. and S.E.

Descend.

80.00 Set a sandstone, 24x12x4 ins., 18 ins. in the ground, for cor. of secs. 21-22-27 and 28, marked with 2 notches on S. and 3 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

No timber.

Mountainous land on 80.00 chs.

December 26: At this cor. I set off 23' 21"S. on decl. arc, and at 12h. 01m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ}53'N.$ N.  $89^{\circ}56'E.$  on a random line, bet. secs. 22 and 27.40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.04 Intersect N. and S. line, 7 lks. N. of the cor. of secs.

22-23-26 and 27.

Thence I run

S.  $89^{\circ}59'W.$ , on a true line,

Bet. secs. 22 and 27.

Ascend abruptly over rocky land.

## Subdivisions of T. 22 S., R. 17 E.

CHAINS	
11.50	Rocky ridge, bears N.E. and S.W. Descend.
18.00	Hollow, 150 ft. deep, course N. Ascend over broken and rocky land.
32.00	Rocky spur, projects S.E. Descend.
39.25	Hollow, 100 ft. deep, course S.E. Ascend.
40.02	Set a sandstone, 36x7x3 ins., 27 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
43.00	Ridge, bears N. and S. Abrupt descent.
45.50	Hollow, 150 ft. deep, course N. Ascend.
61.75	Rocky spur, projects N.W. Descend.
65.00	Hollow, 100 ft. deep, course N.W. Ascend.
80.04	The cor. of secs. 21-22-27 and 28. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 80.04 chs.
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	N. 0°02' W., bet. secs. 21 and 22. Descend over broken and rocky land.
39.50	Hollow, 150 ft. deep, course N.W. Abrupt ascent.
40.00	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

- 48.00 Rocky spur, projects N.W.  
Abrupt descent.
- 68.50 Same hollow, 200 ft. deep, course N.E.  
Abrupt ascent.
- 75.50 Ridge, bears N.E. and S.W.  
Descend.
- 80.00 Set a sandstone, 20x9x8 ins., 15 ins. in the ground, for  
cor. of secs. 15-16-21 and 22, marked  
22 S. on N.E., and  
17 E., on S.E. face, with 3 notches on S. and E. edges, and  
raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, rocky, 3rd. rate.  
No timber.  
Mountainous land on 80.00 chs.

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N.  $89^{\circ}59' E.$ , on a random line, bet. secs. 15 and 22.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.96 Intersect N. and S. line, 5 lks. S. of the cor. of secs.  
14-15-22 and 23.

Thence I run

- S.  $89^{\circ}57' W.$ , on a true line,  
Bet. secs. 15 and 22.

Over bottom land, through dense artemisia.

- 8.00 Begin ascent, bears N.W. and S.E.  
12.50 Spur, projects N.W.  
Descend.  
16.50 Hollow, 50 ft. deep, course N.W.  
Ascend.  
31.25 Spur, projects N.  
Descend.  
37.50 Hollow, 75 ft. deep, course N.  
Ascend.

## Subdivisions of T. 22 S., R. 17 E.

CHAINS	
39.98	Set a quartzite stone, 18x8x5 ins., 12 ins. in the ground, for 1/4 sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 3 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.25	Spur, projects N. Descend.
44.00	Hollow, 75 ft. deep, course N. Ascend.
56.00	Spur, projects N.W. Descend.
57.25	Hollow, 50 ft. deep, course N.W. Ascend..
60.00	Spur, projects N. Descend.
63.00	Hollow, 50 ft. deep, course N. Ascend.
68.00	Ridge, bears N. and S. Abrupt descent.
69.50	Hollow, 150 ft. deep, course N. Abrupt ascent.
72.75	Rocky spur, projects N. Descend.
75.50	Hollow, 100 ft. deep, course N. Abrupt ascent.
79.96	The cor.of secs. 15-16-21 and 22. Land, mountainous. Soil, rocky, 3rd. rate. Undergrowth dense artemisia. No timber. Mountainous land and dense undergrowth on .79.96 chs.
	N.0°02'W., bet. secs. 15 and 16.
	Descend abruptly over broken and rocky land.
33.00	Enter bottom of hollow, 200 ft. deep, course N.W.

Subdivisions of T. 22 S R. 17 E.

Chains. Gradual descent in bottom of hollow.

40.00 Set a sandstone 18x9x4 ins., 12 ins.in the ground,for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face; dig.pits 18x18x12 ins N. and S.of stone 3 ft.dist.; and raise a mound of earth  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high W.of cor.

43.00 Enter dense greasewood brush.

58.00 Little Grande Wash, 1.00 ch.wide, 10 ft.deep, course NW

74.00 Leave greasewood brush.

80.00 Set a quartzite stone 24x10x4 ins., 18 ins.in the groun , for cor.of secs.9,10,15, and 16, marked with 4 notches on S. and 3 notches on E.edges; and raise a mound of stone 2 ft.base,  $1\frac{1}{2}$  ft.high W.of cor.

Pits impracticable.

Land mountainous.

Soil rocky, 3rd rate on 30.00 chs.; balance bottom land, 2nd rate.

Undergrowth dense greasewood.

No timber.

Mountainous or dense undergrowth on 80.00 chs.

December 26, 1905.

December 27: At 8h 01m.a.m.l.m. t.I set off  $38^{\circ} 55'N.$  on lat.arc;  $23^{\circ} 16'S.$ on decl.arc; and determine a meridian with the solar, at the cor.of secs.9,10,15, and 16. Thence I run

$N.89^{\circ} 57'E.$ on a random line betsecs.10 and 15,

40.00 Set temp. $\frac{1}{4}$  sec.cor.

80.02 Intersect N. and S.line at the cor.of secs.10,11,14, and 15. Thence I run

$S.89^{\circ} 57'W.$ on a true line betsecs.10 and 15,

Descend over clay spurs, projecting N.W.

40.01 Set a limestone 30x10x3 ins., 22 ins.in the ground,for  $\frac{1}{4}$ .sec.cor., marked  $\frac{1}{4}$  on N.face; and raise a mound of stone 2 ft.base,  $1\frac{1}{2}$  ft.high N.of cor.

## Subdivisions of T. 22 S., R. 17 E.

Chains.	Pits impracticable.
41.50	Road to Green River, bears N.E. and S.W.. in bottom of hollow, 150 ft. deep, course S.W. Abrupt ascent.
56.00	Ridge point, bears N.W. and N.E. Abrupt descent.
63.00	Foot of abrupt descent, bears N.W. and S.E. Enter bottom of hollow, course N.W.
80.02	The cor. of secs. 9, 10, 15, and 16, Land mountainous. Soil clay on 63.00 chs., 3rd rate.; balance, bottom land, 2nd rate. No timber. Mountainous land on 80.02 chs.

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N.0°02'W.betsecs.9 and 10,  
over bottom land.

8.00	Begin abrupt ascent over clay, bearing N.W. and S.E.
15.00	Clay spur, projects N.W. Abrupt descent.
32.50	Hollow, 150 ft. deep, course S.W. Ascend.
40.00	Set a pine post 3 ft. long, 4 ins. sq., with marked stone 24 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S 9 on W.face; 10 on E.face; dig pits 18 x 18 x 12 ins. N. and S. of post, 3 ft. dist., and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high W. of cor.
46.75	Road to Green River, bears N.W. and S.E.
76.00	Ridge, bears E. and W.; descend.
80.00	Set a pine post 3 ft. long, 4 ins. sq., with marked stone 24 ins. in the ground, for cor. of secs. 3, 4, 9, and 10, marked T 22 S, S 3 on N.E. R 17 E, S 10 on S.E. S 9 on S.W., and S 4 on N.W. face, with 5 notches on S. and 3 notches on E.edges; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high W. of cor.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

Land, mountainous.

Soil, bottom land on 8.00 chs., 2nd. rate.  
balance, clay, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

N. 89° 57' E., on a random line, bet. secs. 3 and 10.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.79.96 Intersect N. and S. line, 3 lks. S. of the cor. of secs.  
2-3-10 and 11.

Thence I run

S. 89° 56' W., on a true line,

Bet. secs. 3 and 10.

Ascend over clay land.

.25 Spur, projects N. Descend.

4.75 Hollow, 50 ft. deep, course N.

Ascend.

19.00 Ridge, bears N.W. and S.E.

Descend.

39.98 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone,  
24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 3 on N.  
face and 10 on S. face, dig pits 18x18x12 ins., E. and W.  
of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  
 $1\frac{1}{2}$  ft. high, N. of cor.This cor. is set in bottom of hollow, 100 ft. deep, course  
N.W.

Ascend over rolling land.

79.96 The cor. of secs. 3-4-9 and 10.

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 79.96 chs.

## Subdivisions of T.22 S., R.17 E.

CHAINS	
	N. $0^{\circ}02'W.$ , on a random line, bet. secs. 3 and 4.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
86.61	Intersect N.bdy. of Tp., 5 lks.E. of the reestablished cor. of secs. 3-4-33 and 34, heretofore described. Thence I run
	S. $0^{\circ}04'E.$ , on a true line,
	Bet. secs. 3 and 4.
	Ascend over gravelly land
.60	Spur, projects S.W.
	Descend.
8.50	Hollow, 100 ft. deep, course S.W.
	Ascend.
14.00	Spur, projects W.
	Descend.
16.50	Hollow, 100 ft. deep, course W.
	Ascend.
18.50	Spur, projects W.
	Descend.
26.50	Hollow, 100 ft. deep, course W.
	Ascend.
36.50	Spur, projects N.E.
	Descend.
40.50	Hollow, 100 ft. deep, course N.E.
	Ascend.
45.50	Ridge, bears E. and W.
	Descend.
46.61	Set a limestone, 15x8x6 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on W. face, dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
54.25	Hollow, 100 ft. deep, course W.
	Ascend.
70.00	Ridge, bears E. and W.
	Descend.
77.40	Hollow, 100 ft. deep, course W.

## Subdivisions of T. 22 S., R. 17 E.

## CHAINS

Ascend.

86.61 The cor. of secs. 3-4-9 and 10.

Land, mountainous.

Soil, clay and gravel, 3rd. rate.

No timber.

Mountainous land on 86.61 chs.

December 27: At this cor. I set off  $23^{\circ}19' S.$  on decl. arc, and at 12h. 01m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ}56' N.$

From the reestablished cor. of secs. 4-5-32 and 33, on S. bdy. of township heretofore described, I run

N. $0^{\circ}03' W.$ , bet. secs. 32 and 33.

Descend over sandy land, through dense artemisia,

6.50 Hollow, 200 ft. deep, course W.

Ascend.

19.00 Spur, projects S.W.

Descend.

24.00 Hollow, 150 ft. deep, course S.W.

Ascend.

35.50 Spur, projects S.W.

Descend.

40.00 Set a sandstone, 30x6x6 ins., 22 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

41.50 Hollow, 100 ft. deep, course S.W.

Ascend.

45.50 Spur, projects S.W.

Descend.

49.00 Hollow, 150 ft. deep, course S.W.

Ascend over broken land.

75.00 Begin abrupt ascent over broken sandstone ledges, bearing E. and W..

80.00 Set a sandstone, 20x14x4 ins., 15 ins. in the ground, for

## Subdivisions of T. 22 S., R. 17 E.

CHAINS	cor. of secs. 28-29-32 and 33, marked with 1 notch on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. Land, mountainous. Soil, rocky, 3rd. rate. Undergrowth dense artemisia. No timber. Mountainous land and dense undergrowth on 80.00 chs.
	N. $89^{\circ}58' E.$ , on a random line, bet. secs. 28 and 33.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 27-28-33 and 34. Thence I run West, on a true line, Bet. secs. 28 and 33. Ascend over broken and rocky land.
28.00	Sandstone ridge, bears N. and S. Descend.
32.00	Hollow, 75 ft. deep, course S. Ascend.
40.02	Set a sandstone, 24x16x7 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
42.50	Spur, projects S.E. Descend.
48.00	Hollow, 150 ft. deep, course S.E. Ascend.
55.00	Rocky ridge, bears N.E. and S.W. Abrupt descent.
69.00	Hollow, 200 ft. deep, course S.E. Abrupt ascent.
80.04	The cor. of secs. 28-29-32 and 33. Land, mountainous.

Subdivisions of T. 22 S., R. 17 E.

CHAINS

Soil, rocky, 3rd. and 4th. rate.

No timber.

Mountainous land, on 80.04 chs.

December 27, 1905..

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December 28: At 8h. 01m., a.m., l.m.t., I set off,  $38^{\circ}52'N.$  on lat.arc,  $23^{\circ}14'S.$  on decl.arc, and determine a meridian with the solar, at the cor. of secs. 28-29-32 and 33.

Thence I run

$N.0^{\circ}03'W.$ , bet. secs. 28 and 29.

Abrupt ascent over broken sandstone ledges and boulders.

1.00 Sandstone spur, projects E.

Abrupt descent.

7.70 Hollow, 150 ft. deep, course E.

Abrupt ascent.

14.00 Sandstone ridge, bears E. and W.

Descend.

40.00 Set a sandstone, 18x15x3 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

43.25 Hollow, 50 ft. deep, course N.E.

Ascend.

45.50 Spur, projects N.E.

Descend.

77.50 Hollow, 150 ft. deep, course E.

Abrupt ascent.

80.00 Set a sandstone, 24x10x5 ins., 18 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked with 2 notches on S. and 4 notches on E.edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. and 4th. rate.

## Subdivisions of T.22 S., R.17 E.

CHAINS	
	No timber.
	Mountainous land on 80.00 chs.
	East, on a random line, bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 21-22-27 and 28.
	Thence I run
	S. 89° 59' W., on a true line,
	Bet. secs. 21 and 28.
	Ascend over rocky land.
3.45	Rocky ridge, bears N.W. and S.E.
	Begin abrupt descent.
9.00	Hollow, 200 ft. below ridge, course S.E.
	Ascend.
39.98	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
62.50	Spur, projects S.W.
	Descend.
65.65	Hollow, 100 ft. deep, course S.
	Ascend.
77.50	Rocky spur, projects S.
	Abrupt descent along steep south slope.
79.96	The cor. of secs. 20-21-28 and 29.
	Land, mountainous.
	Soil, rocky, 3rd. rate.
	No timber.
	Mountainous land on 79.96 chs.
	N. 0° 03' W., bet. secs. 20 and 21.
	Ascend abruptly over rocky land.
1.00	Rocky spur, projects S.W.
	Descend.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

- 6.50 Hollow, 100 ft. deep, course S.W.  
Abrupt ascent.
- 18.25 Ridge point, 250 ft. above sec.cor., bears N.E. and N.W.  
Abrupt descent.
- 31.25 Hollow, 200 ft. deep, course N.E.  
Abrupt ascent.
- 37.50 Rocky spur, projects N.E.  
Abrupt descent.
- 39.60 Hollow, 150 ft. deep, course N.E.  
Abrupt ascent over broken sandstone ledges.
- 40.00 Set a sandstone, 24x8x6 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- 47.50 Sandstone ridge, bears N.E. and S.W.  
Abrupt descent.
- 80.00 Set a sandstone, 20x8x7 ins., 15 ins. in the ground, for cor. of secs. 16-17-20 and 21, marked with 3 notches on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, rocky, 3rd. and 4th. rate.  
No timber.  
Mountainous land on 80.00 chs.

N.89°59' E., on a random line, bet. secs. 16 and 21.

- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 80.04 Intersect N. and S. line, 12 lks. N. of the cor. of secs. 15-16-21 and 22.
- Thence I run

N.89°56' W., on a true line,

Bet. secs. 16 and 21.

Ascend over rocky land.

## Subdivisions of T. 22 S., R. 17. E.

CHAINS	
5.00	Ridge, bears N. and S. Descend.
7.50	Hollow, 75 ft. deep, course N. Ascend.
13.00	Ridge, bears N. and S. Descend.
15.25	Hollow, 75 ft. deep, course N. Ascend.
18.40	Ridge, bears N. and S. Abrupt descent.
24.75	Hollow, 150 ft. deep, course N. Ascend.
40.03	Set a sandstone, 14x10x5 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
48.00	Spur, projects N. Descend.
51.25	Hollow, 100 ft. deep, course N. Ascend.
72.70	Rocky ridge, bears N. and S. Abrupt descent.
75.00	Hollow, 150 ft. deep, course N. Abrupt ascent.
77.00	Spur, projects N. Descend.
79.25	Hollow, 100 ft. deep, course N. Ascend.
80.04	The cor. of secs. 16-17-20 and 21. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 80.04 chs.

## Subdivisions of T. 22 S., R. 17 E.

## CHAINS

N.  $0^{\circ}03'W.$ , bet. secs. 16 and 17.

Descend over rocky land.

23.50 Hollow, 150 ft. deep, course N.E.

Abrupt ascent.

32.00 Rocky ridge, bears N.E. and S.W.

Abrupt descent.

40.00 Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

50.00 Hollow, 100 ft. deep, course N.E.

Ascend.

56.00 Ridge, bears N.E. and S.W.

Descend.

80.00 Set a sandstone, 18x15x5 ins., 12 ins. in the ground, for cor. of secs. 8-9-16 and 17, marked with 4 notches on S. and E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

December 28: At this cor. I set off  $23^{\circ}16'S.$  on decl. arc, and at 12h. 0lm., 1.m.t., observe the sun on the meridian, the resutling lat. is  $38^{\circ}55'N.$ 

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S.  $89^{\circ}56'E.$ , on a random line, bet. secs. 9 and 16.40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.08 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 9-10-15 and 16.

Thence I run

N.  $89^{\circ}59'W.$ , bn a true line,

Bet. secs. 9 and 16.

Gradual descent over bottom land.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

- 6.00 Enter dense greasewood brush.
- 20.00 Little Grande Wash, 90 lks. wide, 8 ft. deep, course N.W.
- 36.50 Leave hollow, course N.W.  
Begin abrupt ascent over clay.
- 38.00 Spur, projects N.  
Descend.
- 40.04 Set a sandstone, 20x12x6 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.
- 41.00 Hollow, 100 ft. deep, course N.E.  
Ascend.
- 57.00 Spur, projects N.  
Descend.
- 80.08 The cor. of secs. 8-9-16 and 17.  
*1/100*  
Land, mountainous.  
Soil, bottom land on 36.50 chs., 2nd. rate.  
balance rocky, 3rd. rate.  
No timber, undergrowth greasewood.  
Mountainous land or dense undergrowth on 74.08 chs.
- 
- N. 0°03' W., bet. secs. 8 and 9.
- Descend over rolling land.
- 25.00 Enter dense greasewood brush and bottom of hollow, 200 ft. deep, course N.W.  
Over bottom land.
- 30.00 Little Grande Wash, 1.00 ch. wide, 10 ft. deep, course N.W.
- 40.00 Set a sandstone, 20x7x6 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- 49.00 Leave greasewood brush.
- 63.00 Leave hollow, begin abrupt ascent bears N.W. and S.E.
- 70.00 Ridge, bears N.W. and S.E.

## Subdivisions of T.22 S., R.17 E.

CHAINS

Descend.

- 80.00 Set a quartzite stone, 24x6x5 ins., 18 ins. in the ground, for cor. of secs. 4-5-8 and 9. marked with 5 notches on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous and rolling.

Soil, bottom land, on 38.00 chs., 2nd. rate.

balance, clay, 3rd. rate.

Undergrowth dense greasewood brush.

No timber.

Mountainous land or dense undergrowth on 80.00 chs.

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S. $89^{\circ}59' E.$ , on a random line, bet. secs. 4 and 9.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.

- 79.98 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 3-4-9 and 10.

Thence I run

S. $89^{\circ}58' W.$ , on a true line,

Bet. secs. 4 and 9.

Descend over rolling clay land.

- 21.00 Road to Green River, bears N.W. and S.E.

- 39.99 Set a charred cottonwood post, 3 ft. long, 3 ins., sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 4 on N. face and 9 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

- 66.00 Hollow, 100 ft. deep, course N.W.

Ascend.

- 79.98 The cor. of secs. 4-5-8 and 9.

Land, rolling.

Soil, clay, 3rd. rate.

No timber.

## Subdivisions of T. 22 S., R. 17 E.

CHAINS	N. 0° 03' W., on a random line, bet. secs. 4 and 5.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
86.69	Intersect N. bdy. of Tp., 5 lks. E. of the reestablished cor. of secs. 4-5-32 and 33, heretofore described. Thence I run
	S. 0° 05' E., on a true line, Bet. secs. 4 and 5.
	Descend over rolling clay land.
7.60	Hollow, 100 ft. deep, course S.E.
	Ascend.
12.50	Spur, projects S.E.
	Descend.
41.50	Hollow, 100 ft. deep, course from N.E. to S.
	Thence along hollow.
44.50	Leave hollow, course S.E.
	Ascend.
46.69	Spur, projects E.
	Set a quartzite stone, 24x12x4 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
51.50	Descend. Hollow, 100 ft. deep, course S.W.
	Ascend.
66.00	Spur, projects S.W.
	Descend.
71.00	Hollow, 100 ft. deep, course W.
	Ascend.
86.69	The cor. of secs. 4-5-8 and 9. Land, mountainous and rolling. Soil, clay, 3rd. rate. No timber. Mountainous land on 86.69 chs.

December 28, 1905.

## Subdivisions of T. 22 S., R. 17 E.

## CHAINS

December 29: At 8h.02m., a.m., l.m.t., I set off  $38^{\circ}51'N.$  on lat.arc,  $23^{\circ}10'S.$  on decl.arc, and determine a meridian, with the solar, at the reestablished cer.of secs. 5-6-31 and 32 heretofore described on the S.bdy. of the Tp.,  
Thence I run

$N.0^{\circ}03'W.$ , on a true line,

Bet. secs. 31 and 32.

Descend abruptly over rocky land,

8.25 Hollow, 200 ft. deep, course W.

Abrupt ascent.

18.50 Rocky spur, projects W.

Abrupt descent.

40.00 Set a sandstone,  $24 \times 8 \times 8$  ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

52.00 Hollow, 150 ft. deep, course W.

Ascend.

59.00 Rocky spur, projects S.W.

Descend.

60.50 Hollow, 75 ft. deep, course S.W.

Ascend.

66.75 Rocky spur, projects S.W.

Descend.

74.50 Hollow, 150 ft. deep, course S.W.

Ascend.

80.00 Set a sandstone,  $28 \times 12 \times 7$  ins., 21 ins. in the ground, for cor.of secs. 29-30-31 and 32, marked with 1 notch on S. and 5 notches on E.edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

## Subdivisions of T.22 S., R.17 E.

CHAINS	N.89°58' E., on a random line, bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.92	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 28-29-30 and 33. Thence I run
	S.89°57' W., on a true line, Bet. secs. 29 and 32.
	Ascend abruptly along steep S. slope, over broken sandstone ledges.
19.75	Rocky spur, projects S. Descend.
33.60	Begin abrupt descent over broken sandstone ledges, bearing N.W. and S.E.
39.96	Set a sandstone, 22x10x6 ins., 16 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
48.00	Hollow, 200 ft. below spur, course S.E. Ascend.
55.00	Ridge, bears N.E. and S.W. Descend over broken land.
73.50	Hollow, 100 ft. deep, course S.W. Ascend.
79.40	Spur, projects S. Descend.
79.92	The cor. of secs. 29-30-31 and 32. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 79.92 chs.

Knowing the line, bet. secs. 30 and 31, will not close within limits, on the W. bdy. of the Tp., I run

S.89°58' W., on a true line,  
Bet. secs. 30 and 31.

## Subdivisions of T.22 S., R.17 E.

CHAINS	
	Descend over rocky land.
.50	Hollow, 30 ft. deep, course S.
	Ascend.
1.50	Spur, projects S.
	Descend.
3.00	Hollow, 50 ft. deep, course S.
	Ascend.
5.25	Spur, projects S.W.
	Descend.
8.50	Hollow, 75 ft. deep, course S.
	Ascend.
11.40	Spur, projects S.W.
	Descend.
29.50	Hollow, 100 ft. deep, course S.W.
	Ascend.
37.80	Ridge, bears N. and S.
	Descend.
40.00	Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
43.00	Hollow, 75 ft. deep, course N.W.
	Ascend.
59.50	Ridge, bears N.W. and S.E.
	Descend.
62.90	Hollow, 150 ft. deep, course S.W.
	Ascend.
65.70	Spur, projects S.
	Descend.
78.01	Intersect W.bdy. of Tp., 82 lks. S. $0^{\circ}03' E.$ , of. the cor. of secs. 25-30-31 and 36, heretofore described.
	Set a sandstone, 24x6x4 ins., 18 ins. in the ground, for closing cor. of secs. 30 and 31, marked C C on E., with 1 groove on S. and 5 grooves on N. faces, and raise a mound of

## Subdivisions of T.22 S., R.17 E.

## CHAINS

stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, E. of cor.

Pits impracticable.

I destroy all marks on the cor. of secs. 25-30-31 and 36, that pertain to R.17 E.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 78.01 chs.

N. $0^{\circ}03'W.$ , bet. secs. 29 and 30.

Ascend over broken land.

26.00 Begin abrupt ascent over gypsum, bearing E. and W.

36.70 Ridge, bears E. and W.

Abrupt descent.

40.00 Set a sandstone,  $18 \times 10 \times 6$  ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

62.00 Hollow, 150 ft. deep, course N.W.

Abrupt ascent.

64.50 Sandstone, spur, projects N.W.

Descend.

80.00 Set a sandstone,  $30 \times 8 \times 5$  ins., 22 ins. in the ground, for cor. of secs. 19-20-29 and 30, marked with 2 notches on S. and 5 notches on E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

December 29: At this cor. I set off  $23^{\circ}13'S.$  on decl. arc, and at 12h.02m., 1.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ}53'N.$

## Subdivisions of T.22 S., R.17 E.

## CHAINS

N. $89^{\circ}57' E.$ , on a random line, bet. secs. 20 and 29.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.90 Intersect N. and S. line, 3 lks. S. of the cor. of secs.  
20-21-28 and 29.

Thence I run

S. $89^{\circ}56' W.$ , on a true line,

Bet. secs. 20 and 29.

Descend over rocky land.

4.00 Hollow, 100 ft. deep, course S.E.

Ascend.

32.00 Ridge, bears N.W. and S.E.

Descend.

39.90 Hollow, 100 ft. deep, course N.

Ascend.

39.95 Set a sandstone, 30x12x4 ins., 22 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

56.25 Ridge, bears N.W. and S.E.

Descend over broken and rocky land.

79.90 The cor. of secs. 19-20-29 and 30.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 79.90 chs.

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Knowing the line bet. secs. 19 and 30 will not close withi limits on the W.bdy. of the Tp., I run

S. $89^{\circ}58' W.$  on a true line, bet. secs. 19 and 30.

Descend abruptly over broken sandstone ledges.

19.00 Hollow, 200 ft. deep, course S.W.

Abrupt ascent.

26.50 Rocky spur, projects S.W.

Descend.

29.00 Hollow, 100 ft. deep, course S.

## Subdivisions of T.22 S., R.17 E.

CHAINS	Abrupt ascent.
40.00	Rocky spur, projects S. Set a sandstone, 18x8x7 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	Abrupt descent.
51.00	Hollow, 200 ft. deep, course S. Abrupt ascent.
78.06	Intersect W.bdy. of Tp., 1.26 chs. S. 0°03' E., of the cor. of s 19-24-25 and 30, heretofore described. Set a sandstone, 15x10x4 ins., 10 ins. in the ground, for closing cor. to secs. 19 and 30, marked C C on E., with 2 grooves on S. and 4 grooves on N.faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable. I destroy all marks on the cor. of secs. 19-24-25 and 30, that pertain to R.17 E. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 78.06 chs.

N. 0°03' W., bet. secs. 19 and 20.

	Descend abruptly over rocky land.
16.50	Hollow, 200 ft. deep, course S.W. Abrupt ascent.
39.50	Sandstone spur, projects S.W. Abrupt descent.
40.00	Point for $\frac{1}{4}$ sec.cor. falls on a sandstone boulder, 5x3x2 ft. above ground, I cut a cross (X), at exact point for $\frac{1}{4}$ sec.cor.; mark $\frac{1}{4}$ on W.side of cross, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
45.25	Hollow, 200 ft. deep, course S.W. Abrupt ascent.

## Subdivisions of T. 23 S., R. 17 E.

## CHAINS

- 54.90 Rocky ridge, bears N.W. and S.E.  
Abrupt descent.
- 68.00 Hollow, 150 ft. deep, course W.  
Abrupt ascent.
- 73.00 Rocky spur, projects S.W.  
Descend.
- 78.00 Hollow, 100 ft. deep, course W.  
Abrupt ascent along steep west slope.
- 80.00 Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for  
cor. of secs. 17-18-19 and 20, marked with 3 notches on S.  
and 5 notches on E. edges, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, rocky, 3rd. rate.  
No timber.  
Mountainous land on 80.00 chs.

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N.  $89^{\circ}56' E.$ , on a random line, bet. secs. 17 and 20.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
79.86 Intersect N. and S. line, 7 lks. N. of the cor. of secs.  
16-17-20 and 21.  
Thence I run

S.  $89^{\circ}59' W.$ , on a true line,

Bet. secs. 17 and 20.

Ascend over rolling and rocky land.

- 39.93 Set a sandstone, 24x7x6 ins., 18 ins. in the ground, for  $\frac{1}{4}$   
sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
Pits impracticable.
- 47.00 Ridge, bears N. and S.  
Abrupt descent.
- 53.50 Hollow, 200 ft. deep, course N.  
Abrupt ascent.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

- 65.00 Rocky spur, projects N.  
Abrupt descent.
- 70.50 Hollow, 100 ft. deep, course N.  
Abrupt ascent.
- 77.50 Rocky ridge, bears N.W. and S.E.  
Abrupt descent.
- 79.86 The cor. of secs. 17-18-19 and 20.  
Land, mountainous.  
Soil, rocky, 3rd. rate.  
No timber.  
Mountainous land on 79.86 chs.

December 29, 1905.

December 30: At 8h.02m., a.m., l.m.t., I set off  $38^{\circ}54'N.$   
on lat.arc,  $23^{\circ}07'S.$  on declarc, and determine a meridian,  
with the solar, at the cor. of secs. 17-18-19 and 20.  
Knowing the line bet. secs. 18 and 19 will not close within  
limits, on the W.bdy. of the Tp., I run  
 $S.89^{\circ}58'W.$ , on a true line,  
Bet. secs. 18 and 19.

- Descend abruptly over broken sandstone ledges.
- 6.00 Hollow, 200 ft. below sec.cor., course N.W.  
Ascend.
- 14.00 Spur, projects N.  
Descend.
- 15.50 Same hollow, 150 ft. deep, course S.W.  
Ascend.
- 19.00 Spur, projects S.  
Descend.
- 21.00 Same hollow, 150 ft. deep, course W.  
Thence along hollow.
- 37.00 Leave hollow, course S.W.  
Ascend.
- 40.00 Set a sandstone, 15x8x7 ins., 10 ins. in the ground, for  $\frac{1}{4}$

## Subdivisions of T.22 S., R.17 E.

## CHAINS

sec.cor., marked  $\frac{1}{4}$  on N.face, and raise a mound of stone,  
2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.

Pits impracticable.

58.00 Rocky spur, projects S.W.

Descend.

77.90 Hollow, 100 ft.deep, course S.E.

Ascend.

78.12 Intersect W.bdy.of Tp., 1.67 chs., S.0°03'E., of the cor.  
of secs.13-18-19 and 24; heretofore described.

Set a sandstone, 30x8x6 ins., 22 ins.in the ground, for  
closing cor.to secs.18 and 19, marked C.C.on E., with  
3 grooves on N.and S.faces, and raise a mound of stone,  
2 ft.base,  $1\frac{1}{2}$  ft.high, E.of cor.

Pits impracticable.

I destroy all marks on the cor.of secs.13-18-19 and 24,  
that pertain to R.17 E.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 78.12 chs.

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N.0°03'W., bet.secs.17 and 18.

Ascend abruptly along steep, west slope over sandstone  
boulders.

5.35 Ridge, bears N.W. and S.E.

Descend.

10.00 Hollow, 100 ft.deep, course N.E.

Abrupt ascent.

17.00 Rocky spur, projects N.E.

Abrupt descent.

33.50 Enter hollow, 150 ft.deep, course N.

Descend along hollow.

37.00 Leave hollow, course N.E.

Ascend.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

- 40.00 Set a sandstone, 20x6x5 ins., 15 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- 48.00 Spur, projects N.E.  
Descend.
- 80.00 Set a sandstone, 36x15x6 ins., 27 ins. in the ground, for cor.of secs. 7-8-17 and 18, marked with 4 notches on S. and 5 notches on E.edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, rocky, 3rd. rate.  
No timber.  
Mountainous land on 80.00 chs.
- 
- N.  $89^{\circ}59' E.$ , on a random line, bet.secs.8 and 17.
- 40.00 Set temp.  $\frac{1}{4}$  sec.cor.
- 79.92 Intersect N.and S.line, 5 lks.S. of the cor.of secs. 8-9-16 and 17.  
Thence I run  
S.  $89^{\circ}57' W.$ , on a true line,  
Bet.secs.8 and 17.  
Descend over clay.
- 2.00 Hollow, 50 ft. deep, course N.  
Ascend.
- 18.00 Begin descent.
- 20.00 Wash, 15 lks.wide, 10 ft. deep, in hollow, 20 ft. deep, course N.W.  
Ascend over rocky land.
- 28.50 Spur, projects N.E.  
Descend.
- 30.50 Hollow, 100 ft. deep, course N.E.  
Ascend.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

- 39.96 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N.face, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.  
Pits impracticable.
- .44.65 Ridge, bears N.and S.  
Descend.
- 57.26 Hollow, 100 ft.deep, course N.  
Ascend.
- 61.50 Ridge, bears N.W.and S.E.  
Descend.
- 64.00 Hollow, 100 ft.deep, course N.W.  
Ascend.
- 66.00 Spur, projects N.W.  
Descend!
- .72.00 Hollow, 150 ft.deep, course N.W..  
Ascend.
- 79.92 The cor.of secs.7-8-17 and 18.  
Land, mountainous.  
Soil, rocky, 3rd.rate.  
No timber.  
Mountainous land on 79.92 chs.

Knowing the line betsecs.7 and 18 will not close within limits, on the W.bdy.of the Tp., I run  
S.89°58'W., on a true line, betsecs.7 and 18.

Ascend over broken and rocky land.

- 40.00 Set a sandstone, 18x6x5 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N.face, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.  
Pits impracticable.
- 57.50 Rocky ridge, bears N.and S.  
Abrupt descent.
- 60.50 Hollow, 150 ft.deep, course S.W.  
Abrupt ascent.

## Subdivisions of T.22 S., R.17 E.

CHAINS	
65.75	Rocky spur, projects S.W. Abrupt descent.
74.25	Hollow, 200 ft. deep, course N.W. Abrupt ascent.
78.14	Intersect W.bdy. of Tp., S.0°03' E., 2.21 chs., from the cor. of secs. 7-12-13 and 18, heretofore described. Set a sandstone, 24x7x6 ins., 18 ins. in the ground, for closing cor. of secs. 7 and 18, marked C C on E., with 4 grooves on S. and 2 grooves on N. faces, and raise a mound of stone, 2 ft. base, 1½ ft. high, E. of cor. Pits impracticable. I destroy all marks on the cor. of secs. 7-12-13 and 18, that pertain to R.17 E. December 30: At this cor. I set off 23°09'S. on decl. arc, and at 12h.02m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°55'N. Land, mountainous. Soil, rocky, 3rd. rate. No timber. Mountainous land on 78.14 chs.
	N.0°03'W., bet. secs. 7 and 8. Descend over rocky land.
36.00	Hollow, 150 ft. deep, course N.W. Abrupt ascent.
32.00	Rocky spur, projects W. Abrupt descent.
40.00	Set a sandstone, 22x6x5 ins., 16 ins. in the ground, for $\frac{1}{2}$ sec. cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Pits impracticable.
41.50	Same hollow, 150 ft. deep, course N.E. Ascend.
44.00	Spur, projects E.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

Descend.

51.00 Enter dense greasewood brush and bottom of hollow, 200 ft. deep, course N.W.

Over bottom of hollow.

63.50 Little Grande Wash, 1.00 ch. wide, 15 ft. deep, course N.W.

72.00 Leave greasewood brush.

80.00 Set a sandstone, 20x9x6 ins., 15 ins. in the ground, for cor of secs. 5-6-7 and 8, marked with 5 notches on S. and E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

*1210  
1160*  
Pits impracticable.

Land, mountainous, and bottoms.

Soil, rocky. 3rd. rate, on 51.00 chs.

balance bottom land 2nd. rate.  
Undergrowth dense greasewood brush.  
No timber,

Mountainous land or dense undergrowth on 72.00 chs.

N.  $89^{\circ}57' E.$ , on a random line, bet. secs. 5 and 8.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. and S. line, at the cor. of secs. 4-5-8 and 9.

Thence I run

S.  $89^{\circ}57' W.$ , on a true line,

Bet. secs. 5 and 8.

Ascend over clay land.

9.50 Ridge, bears N.W. and S.E.

Abrupt descent.

17.50 Hollow, 100 ft. deep, course S.

Abrupt ascent.

18.75 Spur, projects S.

Abrupt descent.

30.00 Foot of abrupt descent, bears N.W. and S.E.

Enter bottom of hollow, 200 ft. deep, course N.W.

40.01 Set a quartzite stone, 14x10x7 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

## Subdivisions of T.22 S., R.17 E.

CHAINS	
	Pits impracticable.
47.75	Wash, 10 lks. wide, 10 ft. deep, course S.
80.02	The cor. of secs. 5-6-7- and 8. Land, mountainous and bottoms. Soil, clay on 30.00 chs., 3rd. rate. balance, bottom land, 2nd. rate. No timber. Mountainous land on 80.02 chs.
	Knowing the line bet. secs. 6 and 7 will not close within limits on the W.bdy. of the Tp., I run S.89°58'W., on a true line, Bet. secs. 6 and 7. Over bottom land.
4.50	Wash, 10 lks. wide, 8 ft. deep, course S.W.
18.00	Enter dense greasewood brush.
19.00	Little Grande Wash, 1.00 ch. wide, 15 ft. deep, course N.W.
39.00	Same wash, 1.00 ch. wide, 15 ft. deep, course S.W.
40.00	Set a quartzite stone, 15x6x6 ins., 10 ins. in the ground, $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of ston. 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
59.00	Same wash, 1.00 ch. wide, 15 ft. deep, course N.W. Leave hollow, course N.W. Begin abrupt ascent.
65.50	Spur, projects N. Abrupt descent.
68.50	Hollow, 150 ft. deep, course N. Abrupt ascent.
78.10	Intersect W.bdy. of Tp., S.0°03'E., 2.95 chs., of the cor. of secs. 1-6-7 and 12, heretofore described. Set a sandstone, 28x7x4 ins., 21 ins. in the ground, for closing cor. of secs. 6 and 7, marked C C on E. with 5 grooves on S. and 1 groove on N. faces, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.

## Subdivisions of T.22 S., R.17 E.

## CHAINS

Pits impracticable.

Land, mountainous and bottoms.

Soil, bottom land on 59.00 chs., 2nd. rate.

balance, rocky, 3rd. rate.

Undergrowth dense greasewood brush.

No timber.

Mountainous land or dense undergrowth on 60.10 chs.

---

N.0°03'W., on a random line, bet. secs. 5 and 6.

40.00 Set temp. + sec.cor.

86.71 Intersect N.bdy. of Tp., 5 lks.E. of the reestablished cor.  
of secs. 5-6-31 and 32, heretofore described.

Thence I run

S.0°05'E., on a true line,

Bet. secs. 5 and 6.

Descend over rolling clay land.

36.00 Hollow, 150 ft. deep, course S.W.

Abrupt ascent.

45.50 Ridge, bears N.E. and S.W.

Abrupt descent.

46.71 Set a limestone, 30x5x5 ins., 22 ins. in the ground, for  $\frac{1}{4}$   
sec.cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

54.10 Hollow, 150 ft. deep, course S.W.

Ascend.

56.30 Spur, projects S.W.

Descend.

58.50 Hollow, 100 ft. deep, course S.W.

Ascend.

67.50 Spur, projects S.W.

Abrupt descent.

77.00 Foot of abrupt descent, bears N.W. and S.E.

Enter bottom of hollow, 200 ft. deep, course N.W.

Over bottom land.

86.71 The cor. of secs. 5-6-7 and 8.

## Subdivisions of T. 22 S., R. 17 E.

Land, mountainous and bottoms.

Soil, clay on 77.00 chs., 3rd. rate.

balance, bottom land, 2nd. rate.

No timber.

Mountainous land on 77.00 chs.

December 30, 1905.

---

General Description.

This township lies in the breaks on the east side of G.<sub>1</sub> River and is mountainous in character.

The soil in the eastern portion is generally clay, with no vegetation of any kind growing on it, while in the western portion, the soil is generally of a sandstone formation.

The only land in this township capable of producing crops with irrigation, lies in Little Grande Wash, which runs from east to west diagonally across the township.

There is no timber or water found in this township.

There is no mineral found in this township.

There are no settlers in this township.

*Fanny M. Head*  
U.S. Deputy Surveyor.

**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.****LIST OF NAMES.**

A list of the names of the individuals employed by \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and fixing the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_, showing the respective capacities in which they acted:

\_\_\_\_\_, *Chainman.*\_\_\_\_\_, *Chainman.*

For final affidavits see book "U" Tp. 21 S., R. 15 E. \_\_\_\_\_, *Moundman.*

\_\_\_\_\_, *Moundman.*\_\_\_\_\_, *Axman.*\_\_\_\_\_, *Axman.*\_\_\_\_\_, *Flagman.***FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all parts or portions of the \_\_\_\_\_

of the \_\_\_\_\_

meridian, \_\_\_\_\_ of \_\_\_\_\_, which are represented he foregoing field notes as having been surveyed by him and under his direction; and that said survey been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor general for \_\_\_\_\_

For final affidavits see book "U" Tp. 21 S., R. 15 E. \_\_\_\_\_, *Chainman.*

\_\_\_\_\_, *Chainman.*\_\_\_\_\_, *Moundman.*\_\_\_\_\_, *Moundman.*\_\_\_\_\_, *Axman.*\_\_\_\_\_, *Axman.*\_\_\_\_\_, *Flagman.*

scribed and sworn to before me this \_\_\_\_\_  
day of \_\_\_\_\_, 190 \_\_\_\_\_

SEAL  
COMMONWEALTH OF MASSACHUSETTS

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ..... United States Deputy Surveyor  
 solemnly swear that, in pursuance of a contract received from .....  
 United States Surveyor General for ..... bearing date .....  
 day of ..... 190 , I have well, faithfully, and truly, in my  
 proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... the Manual of Surveying Instructions, and the laws of the  
 United States, surveyed all those parts or portions of .....  
 For final affidavit see back "U" Tp. 21 S., R. 15 E.

..... of the .....  
 ..... meridian, in the ..... which are represented  
 foregoing field notes as having been surveyed by me, and under my direction; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... and in the specific manner described in the field notes, the foregoing are the original field notes of such survey.

.....  
 United States Deputy Surveyor

Subscribed by said ..... and sworn to before me }  
 this ..... day of ..... 190 }  
 }

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 O SEAL O  
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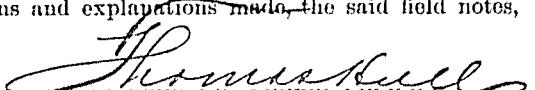
## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18,

The foregoing field notes of the survey of ..... the Subdivisional lines of Town No. 22 South, Range No. 17 East of the Salt Lake Base and Meridian, Utah,

executed by ..... Harvey I. Peist and Earl V. McElroy .....  
 under h<sup>t</sup> contract No. 221 ..... dated June 7, ..... 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, surveys they describe, are hereby approved.

  
 Thomas Kelly  
 United States Surveyor

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor

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*m.m.l*  
*J.J.B.*

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BOOK A-340

# FIELD NOTES

OF THE retracement  
A SURVEY OF THE

W-E-S-T-B-O-U-N-D-A-R-Y

of

Township No. 21 South,

Range No. 17 East,

Of the Salt Lake Base, and Meridian,

in the state of Utah.

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, United States Deputy Surveyor,  
their Contract No. 291, dated June 3, 1905

commencement

December 31, 1905

completion

January 1, 1906

*Temp 61° ✓  
Bar 37° ✓  
Coy 17051*

**NAMES AND DUTIES OF ASSISTANTS.**

Robert R. Raycraft, ..... Chainman  
Claude Gresham, ..... " "  
Daniel R. Adams, ..... Moundman  
Willmer E. Tomlinson ..... Flagman

For preliminary affidavits see book "A" Tp. 23 S., R. 17 E.

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# Volume

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# R0340

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BOOK A-340

## INDEX DIAGRAM.

*Township 21 South, Range 17 East,*

5	6	5	4	3	2	1
5	7	8	9	10	11	12
4	18	17	16	15	14	13
5	10	20	21	22	23	24
3	30	29	28	27	26	25
2	31	32	33	34	35	26

*Meanders Page.....*

## PRELIMINARY OATHS OF ASSISTANTS.

We, ..... and .. do solemnly swear that we will well and faithfully execute the duties of chainmen that we will chain upon even and uneven ground, and plumb the tally plus, either by sticking or dropping the same, we will report the true distances to all notable objects, and the true lengths of all lines that we will measure, to the best of our skill and ability, and in accordance with instructions given us in the measuring.

Subscribed and sworn to before me this .. .  
day of .. ., 180 .



We, ..... and .. do solemnly swear that we will well and truly perform the duties of measurement in the case of corners, according to the instructions given us to the best of our skill and ability, in the surveying.

Subscribed and sworn to before me this .. .  
day of .. ., 180 .



We, ..... and .. do solemnly swear that we will well and truly perform the duties of executing the establishment of and other duties, according to instructions given us to the best of our skill and ability, in the surveying.

Subscribed and sworn to before me this .. .  
day of .. ., 180 .



I, ..... do solemnly swear that I will well and truly perform the duties of surveyor according to instructions given us to the best of my skill and ability, in the surveying.

Subscribed and sworn to before me this .. .  
day of .. ., 180 .



## Retracement of the West Boundary of T.21 S., R.17 E.

Survey commenced December 31, 1905, and executed with the instrument described in "book A", of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors, then to test the solar apparatus, by comparing its indications, resulting from solar observations, made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Twp. 21 and 22 S., Rs. 16 and 17 E., heretofore described, in approximate latitude  $38^{\circ}56'N.$ , longitude  $110^{\circ}07'W.$ , I set off  $38^{\circ}56'N.$  on lat. arc,  $23^{\circ}01'S.$  on decl. arc, and at 4h.03m., p.m., l.m.t., determine a meridian with the solar and mark a point thereof, on a stone, firmly set in the ground, 5 chs. N. of the cor.

December 31, 1905.

---

January 1, 1906: At 9h.42m., a.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5 chs. N. of my station.

At 7h.30m., a.m., I lay off the azimuth of Polaris,  $1^{\circ}32'$  to the east, and mark the meridian thus determined, by cutting a small groove in the stone, set last evening, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 8h.03m., a.m., l.m.t., I set off  $38^{\circ}56'N.$  on lat. arc,  $22^{\circ}58'S.$  on decl. arc, and mark a point on the meridian determined with the solar, by a cross on the stone, already set 5 chs. N. of my station; this mark falls 0.4 ins. east of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, about  $0'21''$  west and east of the meridian established by the Polaris observations, therefore, I conclude that the adjustments of the instrument are satisfactory.

## Retracement of the West Boundary of T.21 S.R.17 E.

## CHAINS

The magnetic bearing of the true meridian, at 8h.15m., a.m., is N. $15^{\circ}35'W.$ , :the angle thus determined, gives the mag.decl. $15^{\circ}35'E.$

From the Tp.cor.already described, I run

North, on retracement line,

Bet.secs.31 and 36.

Descend over rolling clay.

11.00 Hollow, 100 ft.deep, course W.

Begin abrupt ascent over sandstone ledges.

33.00 Ridge, bears E. and W.

Descend over broken land.

40.34 Intersect the  $\frac{1}{4}$  sec.cor., which is a sandstone, 12x10x4 in above ground, marked and witnessed as described by the surveyor general.

80.76 Intersect the cor.of secs.25-30-31 and 36, which is a sandstone, 17x8x6 ins.above ground,marked and witnessed as described by the surveyor general.

Land, mountainous and rolling.

Soil, clay and rocky, 3rd. rate.

No timber.

Mountainous land on 69.76 chs.

North, on retracement line,

Bet.secs.25 and 30.

Descend over rocky land.

1.00 Hollow, 100 ft.deep, course E.

Begin abrupt ascent,over rocky land.

5.10 Rocky spur, projects E.

Descend.

8.00 Hollow, 75 ft.deep, course E.

Ascend.

10.35 Rocky spur, projects E.

Descend.

12.75 Hollow, 75 ft.deep, course E.

Ascend.

Retracement of the West Boundary of T.21 S., R.17 E.

## CHAINS

14.00 Rocky spur, projects E.

Descend over broken and rocky land.

40.47 Fall 4 lks. west of the  $\frac{1}{4}$  sec.cor.betsecs.25 and 30, which is a sandstone, 10x10x5 ins. above ground, marked and witnessed as described by the surveyor general.

47.00 Leave rocky land, enter sandy land.

54.25 Hollow, 100 ft. deep, course N.W.

Ascend over rolling clay land.

59.50 Road to Green River, bears N.W. and S.E.

81.41 Fall 9 lks.W. of the cor.of secs.19-24-25 and 30, which is a quartzite stone, 10x4x3 ins. above ground, marked and witnessed, as described by the surveyor general.

The course of this line is therefore, N.0°04'E., and the dist.81.41 chs.

Land, mountainous. and rolling.

Soil, rocky, sandy and clay, 3rd. rate.

No timber.

Mountainous land on 54.25 chs.

---

North, on retracement line,

Bet.secs.19 and 24.

Ascend over rolling clay land.

25.00 Begin abrupt ascent, bearing N.W. and S.E.

35.50 Ridge, 250 ft. above sec.cor., bears N.W. and S.E.

Descend over rolling land.

40.92 Fall 25 lks.W. of the  $\frac{1}{4}$  sec.cor., bet.secs.19 and 24, which is a Shale stone, 15x15x3 ins. above ground, marked and witnessed as described by the surveyor general.

81.61 Fall 50 lks.W. of the cor.of secs.13-18-19 and 24, which is a sandstone, 18x12x6 ins. above ground, marked and witnessse as described by the surveyor general.

The course of this line is therefore N.0°21'E., and the dist.81.61 chs.

Land, mountainous.

Soil, clay, 3rd. rate.

## Retracement of the West Boundary of T.21 S., R.17 E.

CHAINS	
	No timber.
	Mountainous land on 56.61 chs.
	North, on retracement line,
	Bet. secs. 13 and 18.
	Descend over clay land and shale.
9.00	Leave shale.
9.55	Rio Grande Western Railroad, bears N.56°15'W. and S.56°15'E.
10.40	Telegraph line, bears N.56°15'W. and S.56°15'E.
23.35	Road from Green River to Little Grande, bears N.W. and S.E.
25.50	Wash, 20 lks. wide, 10 ft. deep, course N.W.
40.29	Fall 6 lks. E. of the $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18, which is a sandstone, 10x8x4 ins. above ground, marked and witnessed as described by the surveyor general.
43.00	Enter dense greasewood brush and level land, in bottom of hollow, 100 ft. deep, course W.
55.25	Wash, 1.50 chs. wide, 20 ft. deep, course W.
60.00	Leave level and and greasewood brush, bears E. and W. Ascend over rolling clay land.
79.70	An oil prospect shaft, 10 ft. deep, 8 ft. sq., on line.
80.72	Fall 12 lks. E. of the cor. of secs. 7-12-13 and 18, which is a shale stone, 10x10x3 ins. above ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N.0°05'W., and the dist. 80.72 chs.
	Land, mountainous.
	Soil, clay, 3rd. rate.
	No timber. Undergrowth greasewood.
	Mountainous land, or land covered with dense undergrowth on 80.72 chs.
	January 1: At this cor. I set off 23°00'S. on decl. arc, 12h.03m., l.m.t., observe the sun on the meridian, the resulting lat. is 39°00'N.

-5-

## Retracement of the West Boundary of T. 21 S., R. 17 E.

Chains. North on retracement line bet. secs. 7 and 12,  
 Over rolling clay land.  
 31.00 Leave rolling land; enter level land, bears E. and W.  
 40.43 Fall 15 lks.E. of the  $\frac{1}{4}$  sec.cor.betsecs.7 and 12, which  
     is a shale stone 5x5x4 ins.above ground, marked and  
     witnessed as described by the surveyor general.  
     The course of this line is therefore N.0°15'W. and the  
     dist.40.43 chs.  
     I offset over the  $\frac{1}{4}$  sec.cor. and continue the measure-  
     ment,  
         North bet.secs.7 and 12,  
 80.55 Fall 20 lks.W. of the cor.of secs.1,6,7, and 12, which  
     is a shale stone 10x8x4 ins.above ground, marked and  
     witnessed as described by the surveyor general.  
     The course of this line is therefore N.0° 17'E., and  
     the dist.40.12 chs.  
     Land rolling and level.  
     Soil clay; 3rd rate.  
     No timber.

---

North on retracement line bet.secs.1 and 6,  
 Over level sandy land.  
 14.00 Begin descent bears N.E. and S.W.  
 40.32 Fall 46 lks.E. of the  $\frac{1}{4}$  sec.cor. bet.secs.1 and 6, which  
     is a shale stone 8x5x3 ins.above ground, marked and  
     witnessed as described by the surveyor general.  
     The course of this line is therefore N.0°40'W., and the  
     dist.40.32 chs.  
     I offset over the  $\frac{1}{4}$  sec.cor., and run with continuous  
     measurement.  
         North bet.secs.1 and 6,  
 49.07 Hollow, 50 ft.deep, course W.  
     Ascend over rolling clay.  
 66.32 Clay spur projects W. Descend.

Retracement of the West Boundary of T. 21 S., R. 17 E.

Chains.

- 70.72 Hollow, 75 ft. deep, course W. Ascend.
- 73.32 Clay spur, projects W. Descend.
- 75.32 Hollow, 75 ft. deep, course W. Ascend.
- 88.82 Clay spur projects S.W. Descend.
- 92.32 Hollow 75 ft. deep, course S.W. Ascend.
- 112.82 Clay spur projects S.W. Descend.
- 115.82 Hollow 75 ft. deep, course S.W.  
Ascend.
- 118.33 Clay spur, projects S.W. Descend.
- 121.72 Hollow, 100 ft. deep, course S.W. Ascend.
- 122.93 Intersect the Fourth Standard Parallel South, 82.91  
chs.S.89° 27'E. of the stan.cor.of secs.34 and 35, T.  
20 S. , R. 16 E., which is a sandstone 16x9x3 ins.  
above ground, marked and witnessed as described by  
the surveyor general and 17.05 chs.N.89° 27'W. of  
the stan. sec.cor.on S.bdy.of sec.35 T, 20 S. , R.  
16 E. , which is a limestone 12x8x3 ins.above ground,  
marked and witnessed as described by the surveyor  
general.
- No trace can be found of the closing cor.for Tp. 21 S.  
Rs.16 and 17 E. I reestablish the cor.as follows:  
At point of intersection with the Fourth Standard Par-  
allel South, I set a limestone 24x15x4 ins., 18 ins.  
in the ground for reestablished cor.of Tp.21 S., Rs.  
16 and 17 E., marked  
C C 21 S on S.  
17 N on E., and  
16 E on W.face; with 6 grooves on S.E. and W.  
faces; dig pits 30x24x12 ins.crosswise on each line  
E. and W.4 ft. and S.of stone 8 ft.dist.; and raise  
a mound of earth 5 ft.base, 2½ ft.high S.of cor.  
Land mountainous and level.

## Retracement of the West Boundary of T.21 S., R.17 E.

CHAINS

Soil, sandy and clay, 3rd. rate.

No timber.

Mountainous land on 73.86 chs.

January 1, 1906

For general description, see Subdivisions of  
T.21 S., R.17 E.

For table of latitudes and departures, see West Bdy. of  
T.21 S., R.17 E.

J. Harvey L. Flint  
U.S. Deputy Surveyor.

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## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by \_\_\_\_\_, United States Deputy Surveyor, to assist in running, measuring, and laying the lines and corners described in the foregoing field notes of the survey of \_\_\_\_\_, giving the respective capacities in which they acted:

\_\_\_\_\_, *Chairman.*  
 \_\_\_\_\_, *Chairman.*  
 final affidavits see book "T", Tp. 21 S., R. 14 E. \_\_\_\_\_, *Moundman.*  
 \_\_\_\_\_, *Moundman.*  
 \_\_\_\_\_, *Axman.*  
 \_\_\_\_\_, *Axman.*  
 \_\_\_\_\_, *Flagman.*

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted \_\_\_\_\_, United States Deputy Surveyor, in surveying all parts or portions of the \_\_\_\_\_, \_\_\_\_\_, of the \_\_\_\_\_, meridian, \_\_\_\_\_, of \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey was made in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor and for \_\_\_\_\_.

final affidavits see book "T", Tp. 21 S., R. 14 E. \_\_\_\_\_, *Chairman.*  
 \_\_\_\_\_, *Chairman.*  
 \_\_\_\_\_, *Moundman.*  
 \_\_\_\_\_, *Moundman.*  
 \_\_\_\_\_, *Axman.*  
 \_\_\_\_\_, *Axman.*  
 \_\_\_\_\_, *Flagman.*

Subscribed and sworn to before me this \_\_\_\_\_  
 day of \_\_\_\_\_, 190\_\_\_\_\_

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## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, do hereby swear that, in pursuance of a contract received from \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, bearing date \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_, for which I am levied; see book "T", Tp. 21 S., R. 14 E.

..... of the \_\_\_\_\_ meridian, in the \_\_\_\_\_, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_, and in the specific manner described in the field notes, all the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_ }

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## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18

The foregoing field notes of the retracement of the West Boundary of Township No. 21 South, Range No. 17 East of the Salt Lake Base Meridian, Utah,

executed by Harvey J. Heist and Earl V. Woolley under their contract No 281 dated June 3, 1905, having been duly examined, and the necessary corrections and explanations made, the said field notes, after recheck, are hereby approved.

*Thomas Kelly*  
United States Surveyor G.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

*United States Surveyor G.*

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M.M.L.  
R.J.B.

BOOK A-340

FILED

MAR 15 1906

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W.H.

# FIELD NOTES

OF THE SURVEY OF THE

F-O-U-R-T-H S-T-A-N-D-A-R-D P-A-R-A-L-L-E-L S-O-U-T-H

through

Range No. 17 East,

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

Harvey D. Heist and Earl V. Woolley, United States Deputy Surveyors  
their Contract No. 291, dated June 3, 1905

y commenced January 3, 1906

y completed January 3, 1906

6-161

High 2.24-00 /  
Low 16.00 /

## NAMES AND DUTIES OF ASSISTANTS.

Elmer Petty.....Chainman.....

Melvin D. Heist, " "

Robert R. Raycraft " "

Claude Gresham " "

Daniel R. Adams Moundman.....

William E. Tomlinson, Flagman.

BOOK A-340

## INDEX DIAGRAM.

*Township 20 South, Range 17 East.*

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1	2	3			

*Meanders Page.*

## PRELIMINARY OATHS OF ASSISTANTS.

WE, Elmer Petty, Melvin D. Heist and Robert R. Raycraft, Claude do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping them; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Fourth Standard Parallel South, through R. 17 E. of the Salt Lake Base and Meridian, Utah.

*Elmer Petty*  
*Melvin D. Heist*

*Robert R. Raycraft, Cha.*  
*Claude Gresham, Cha.*

Subscribed and sworn to before me this 2nd  
day of January, 1906



*Harvey H. Flieit*  
U.S. Deputy Surveyor.

WE, I, Daniel R. Adams and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Fourth Standard Parallel South, through R. 17 E. of the Salt Lake Base and Meridian, Utah.

*Daniel R. Adams, Mou.*  
Mou.

Subscribed and sworn to before me this 2nd  
day of January, 1906



*Harvey H. Flieit*  
U.S. Deputy Surveyor.

WE, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the survey

Subscribed and sworn to before me this  
day of , 1906



I, Willmer E. Tomlinson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Fourth Standard Parallel South, through R. 17 E. of the Salt Lake Base and Meridian, Utah.

*Willmer E. Tomlinson*

Subscribed and sworn to before me this 2nd.  
day of January, 1906



*Harvey H. Flieit*  
U.S. Deputy Surveyor.

## Fourth Standard Parallel South, through Range 17 East,

## CHAINS

Survey commenced, January 2, 1906, and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment, from recent observations made, December 31, 1905 and January 1, 1906, and recorded in book "G", of this survey.

I begin at the standard cor. of T.20 S., R.16 and 17 E., which is a quartzite stone, 16x11x4 ins. above ground, marked and witnessed as described by the surveyor general.

At 8h.04m..a.m..l.m.t., I set off  $39^{\circ}02'N.$  on lat. arc,  $22^{\circ}53'S.$  on decl. arc, and determine a meridian with the solar.

From the standard cor. above described, I run with two sets of chainmen

East, on S.bdy. of sec.31.

Over level sandy land.

16.00

Enter dense artemisia.

Difference between measurements of 40.00 chs., by two sets of chainmen is 2 lbs.: position of middle point

By 1st.set 39.99 chs.

By 2nd.set, 40.01 chs., the mean of which is

40.00

Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for standard  $\frac{1}{2}$  sec.cor., marked S C  $\frac{1}{2}$  on N. face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

49.25

Vash, 1.00 ch.wide, 15 ft. deep, course S.

Difference between measurement of 80.00 chs. by two sets of chainmen is 4 lbs., position of middle point

By first set, 79.98 chs.,

By 2nd.set, 80.02 chs., the mean of which is

80.00

Set a sandstone, 18x8x6 ins., 10 ins. in the ground, for standard cor.of secs.31 and 32, marked S C on N., with 1 groove on W. and 5 grooves on E. faces, dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft., and N. of stone.

Fourth Standard Parallel South, through Range 17 East.

CHAINS	7 ft. dist.: and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor. Land, level. Soil, sandy, 2nd. rate. No timber. Dense undergrowth on 64.00 chs.
--------	---

East, on S. bdy. of sec. 32..

	Over level sandy land, through dense artemisia.
18.00	Wash, 50 lks. wide, 10 ft. deep, course S. Begin ascent.
33.00	Sandy ridge, bears N.E. and S.W. Descend.
35.25	Hollow, 50 ft. deep, course S.W. Ascend. Difference between measurement of 40.00 chs., by two sets of chainmen is 6 lks., position of middle point, By 1st. set, 39.97 chs., By 2nd. set, 40.03 chs., the mean of which is
40.00	Set a sandstone, 28x10x5 ins., 21 ins., in the ground, for standard $\frac{1}{4}$ sec. cor., marked S C $\frac{1}{4}$ on N. face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
43.00	Spur, projects N.W. Descend.
44.00	Hollow, 75 ft. deep, course N.W. Ascend.
64.00	Ridge, bears N. and S. Descend.
79.25	Hollow, 50 ft. deep, course S. Ascend.    Difference between measurement of 80.00 chs., by two sets of chainmen is 8 lks., position of middle point By 1st. set, 79.96 chs., By 2nd. set, 80.04 chs. the mean of which is

Fourth Standard Parallel South, through Range 17 East.

## CHAINS

- 80.00 Set a sandstone, 28x8x4 ins., 21 ins. in the ground, for standard cor. of secs. 32 and 33, marked with S C on N., 2 grooves on W. and 4 grooves on E. faces, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.  
 Pits impracticable.  
 Land, level and mountainous.  
 Soil, sandy and rocky, 3rd. rate.  
 No timber.  
 Mountainous land or dense undergrowth on 80.00 chs.

East, on S.bdy. of sec. 33.

Ascend over rocky land.

- 4.25 Spur, projects S.W.  
 Descend.  
 11.50 Hollow, 75 ft. deep, course S.  
 Ascend.

- 13.25 Spur, projects S.  
 Descend.  
 17.25 Hollow, 75 ft. deep, course S.  
 Ascend.

- 22.00 Spur, projects S.  
 Descend.  
 23.25 Hollow, 50 ft. deep, course S.  
 Ascend.

- 26.00 Spur, projects S.  
 Descend.  
 37.50 Hollow, 75 ft. deep, course S.W.  
 Abrupt ascent.

Difference between measurement of 40.00 chs., by two sets of chainmen is 8 lks., position of middle point  
 By 1st.set, 39.96 chs.,

By 2nd.set, 40.04 chs., the mean of which is

- 40.00 Set a sandstone, 24x16x12 ins., 18 ins. in the ground, for

Fourth Standard Parallel South, through Range 17 East.

## CHAINS

standard  $\frac{1}{4}$  sec.cor., marked S C  $\frac{1}{4}$  on N.face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

East of this cor., within 18.00 chs., there will be encountered sandstone ledges, bearing N. and S., about 1500 ft. high, a perpendicular wall or rim rock, running along the face of these ledges about 500 ft. high, makes them inaccessible.

I discontinue my line at this cor.

Land, mountainous.

Soil, rocky, 3rd. rate.

No timber.

Mountainous land on 40.00 chs.

January 2, 1906.

For general description see Subdivisions of T. 21 S., R. 17 E

Harvey D. Fife  
U. S. Deputy Surveyor.

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by ..... Harvey D. Heist .....  
 ..... United States Deputy Surveyor, to assist in running, measuring, and  
 ing the lines and corners described in the foregoing field notes of the survey of .....  
 ..... the Fourth Standard Parallel South, through R. 17 E. of the Salt  
 Base and Meridian, Utah, .....  
 ng the respective capacities in which they acted:

Elmer Petty, ..... Robert R. Raycraft ..... Chainman.  
 Melvin D. Heist, ..... Claude Gresham ..... Chainman.  
 Daniel R. Adams ..... Moundman.  
 ..... Moundman.  
 ..... Axman.  
 Willmer E. Tomlinson ..... Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted ..... Harvey D. Heist, .....  
 ..... United States Deputy Surveyor, in surveying all  
 parts or portions of the .....  
 ..... Fourth Standard Parallel South, through R. 17 E. ....  
 ..... of the Salt Lake  
 Base and ..... meridian, in the state of ..... Utah ..... which are represented  
 foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 en in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 monuments established, according to the instructions furnished by the United States Surveyor  
 al for ..... Utah

Elmer Petty Robert R. Raycraft ..... Chainman.  
 in D. Heist Claude Gresham ..... Chainman.  
 Daniel R. Adams ..... Moundman.  
 ..... Moundman.  
 ..... Axman.  
 ..... Axman.

Willmer E. Tomlinson ..... Flagman.

cribed and sworn to before me this ..... 2nd, .....  
 ay of ..... January, ..... 1806 }

Harvey D. Heist  
U.S. Deputy Surveyor.

000000  
HEALY  
000000

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Harvey D. Heist, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date 3rd day of June, 1905, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Fourth Standard Parallel South, through R. 17 E.

of the Salt Lake  
Base and meridian, in the state of Utah, which are represented by the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, the foregoing are the original field notes of such survey.

*Harvey D. Heist*  
United States Deputy Surveyor

Subscribed by said Harvey D. Heist, and sworn to before me  
this 14<sup>th</sup> day of June, 1905,

  
SEAL

*Thomas H. C.  
U. S. Surveyor General for Utah*

## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18,

The foregoing field notes of the survey of the Fourth Standard Parallel South through Range 17 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley under his contract No. 291, dated June 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, surveys they describe, are hereby approved.

*Thomas H. C.  
United States Surveyor General*

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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4-070.

M.M.L.  
R. S. G.

FILED

MAR 16 1906

" I "  
BOOK A-340

## FIELD NOTES

OF THE SURVEY OF THE

E-A-S-T D-O-U-N-D-A-R-Y

OF

Township No. 21 South,

Range No. 17 East,

of the said Township and Meridian,

in the state of N.D.

AS SURVEYED BY

Barney H. Betts, and Frank V. Tamm, Deputies, United States Deputy Surveyors

Under Contract No. 791, dated June 2, 1905.

Survey commenced January 3, 1906.

Survey completed January 7, 1906.

S. 30° E.  
17.75'

**274**

BOOK A-340

**NAMES AND DUTIES OF ASSISTANTS.**

Robert R. Raycraft, Chainman.

Claude Gresham, Chainman.

Daniel R. Adams Moundman

Willmer E. Tomlinson Flagman.

**Volume**

**#**

**R0340**

BOOK A-340

## INDEX DIAGRAM.

*Township 21 South, \_\_\_\_\_, Range 17 East, \_\_\_\_\_*

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*Meanders Page \_\_\_\_\_*

## PRELIMINARY OATHS OF ASSISTANTS.

We, Robert R. Raycraft and Claude Gresham do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

the East Boundary of T 21 S R 17 E of the Salt Lake Base and Meridian, Utah.

Robert R. Raycraft, Cha.  
Claude Gresham, Cha.

Subscribed and sworn to before me this 3rd.  
day of January, 1906



Harvey H. Frist

U.S. Deputy Surveyor

We, J. Daniel R. Adams and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

the East Boundary of T. 21 S., R. 17 E. of the Salt Lake Base and Meridian, Utah.

J. Daniel R. Adams, Mou.

Subscribed and sworn to before me this 3rd.  
day of January, 1906



Harvey H. Frist

U.S. Deputy Surveyor

We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Subscribed and sworn to before me this 3rd.  
day of January, 1906



I, Willmer E. Tomlinson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the East Boundary of T. 21 S., R. 17 E. of the Salt Lake Base and Meridian, Utah.

Willmer E. Tomlinson

Subscribed and sworn to before me this 3rd.  
day of January, 1906



Harvey H. Frist

U.S. Deputy Surveyor

East Boundary, T. 21 S., R. 17 E.

CHAINS

Survey commenced, January 3, 1906, and executed with the instrument described in book "A", of this survey.

I know the instrument to be in adjustment from recent observations made December 31, 1905 and January 1, 1906, and recorded in book "G", of this survey.

I begin at the reestablished cor. of Tps. 21 and 22 S., Rs. 17 and 18 E., heretofore described.

At 8h.04m., a.m., l.m.t., I set off 38° 56' N. on lat.arc, 22° 48' S. on decl.arc, and determine a meridian with the solar.

Thence I run

North, bet. secs. 31 and 36.

Descend over rolling clay land.

17.75 Hollow, 100 ft. deep, course W.

Ascend.

24.50 Spur, projects W.

Descend.

32.00 Hollow, 100 ft. deep, course W.

Ascend.

37.50 Clay spur, projects W.

Descend.

40.00 Set a quartzite stone, 24x12x6 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

46.50 Hollow, 100 ft. deep, course W.

Ascend.

48.75 Spur, projects W.

Descend.

51.50 Hollow, 100 ft. deep, course N.W.

Ascend.

53.00 Spur, projects W.

Descend.

55.25 Hollow, 100 ft. deep, course S.W.

Ascend.

## East Boundary, T.21 S., R.17 E.

## CHAINS

- 57.35 Clay spur, projects W.  
Descend over broken land.
- 66.75 Hollow, 100 ft. deep, course S.W.  
Ascend.
- 70.00 Clay spur, projects S.W.  
Descend.
- 74.00 Hollow, 100 ft. deep, course S.W.  
Ascend.
- 79.00 Ridge, bears N.E. and S.W.  
Descend.
- 80.00 Set a quartzite stone, 20x8x4 ins., 15 ins. in the ground,  
for cor. of secs. 25-30-31 and 36, marked with 1 notch on  
S. and 5 notches on N. edges, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous and rolling.  
Soil, clay, 3rd. rate.  
No timber.  
Mountainous land on 62.25 chs.

North, bet. secs. 25 and 30.

- Descend over clay land.
- 6.00 Hollow, 75 ft. deep, course S.W.  
Ascend over broken land.
- 19.35 Rio Grande Western Railroad, bears N. $52^{\circ}45'$ W. and S. $52^{\circ}45'$ E.
- 20.15 Telegraph line, bears N. $52^{\circ}45'$ W. and S. $52^{\circ}45'$ E.
- 40.00 Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone,  
24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 25 on W.  
and 30 on E. face, dig pits, 18x18x12 ins., N. and S. of post,  
3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, W. of cor.
- 45.00 Ridge, bears N.E. and S.W.  
Descend over broken land.
- 64.25 Hollow, 100 ft. deep, course S.W.

## East Boundary, T.21 S., R.17 E.

## CHAINS

Ascend over broken land.

75.50 Ridge, bears N.E. and S.W.

Abrupt descent over rocky land.

80.00 Set a sandstone, 26x10x9 ins., 19 ins. in the ground, for cor. of secs. 19-24-25 and 30, marked with 2 notches on S. and 4 notches on N. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous.

Soil, clay and rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

## North, bet. secs. 19 and 24.

Descend over rocky land.

.50 Hollow, 100 ft. deep, course W.

Abrupt ascent.

1.25 Rocky spur, projects W.

Abrupt descent.

7.00 Hollow, 100 ft. deep, course S.W.

Ascend.

11.00 Spur, projects S.W.

Descend.

14.00 Hollow, 100 ft. deep, course S.W.

Ascend.

27.00 Ridge, bears N.E. and S.W.

Descend over broken land.

40.00 Set a sandstone, 26x8x4 ins., 19 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist, and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

75.00 Enter level land, bears E. and W.

Enter dense greasewood brush.

78.00 Wash, 1.00 ch. wide, 10 ft. deep, course W.

80.00 Set a sandstone, 20x8x6 ins., 15 ins. in the ground, for

## East Boundary, T. 21 S., R. 17 E.

## CHAINS

cor. of secs. 13-18-19 and 24, marked with 3 notches on N. and S. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. .  
 Pits impracticable.  
 Land, mountainous and level.  
 Soil, rocky and clay, 3rd. rate.  
 No timber.  
 Mountainous land or dense undergrowth on 80.00 chs.  
 January 3: At this cor. I set off  $22^{\circ}50' S.$  on decl. arc, and at  $12h.04'$ , l.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ}59' N.$

## North, bet. secs. 13 and 18.

- Over level land, through dense greasewood brush.
- 3.00 Leave level land and brush, begin ascend over broken clay land, bearing N.W. and S.E.
- 40.00 Set a sandstone, 28x8x4 ins., 21 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. .  
 Pits impracticable.  
 Begin abrupt ascent, bears E. and W.
- 66.80 Clay spur, projects S.W.  
 Abrupt descent.
- 74.25 Hollow, 100 ft. deep, course S.W.  
 Ascend abruptly over rocky land.
- 80.00 Set a sandstone, 28x10x8 ins., 21 ins. in the ground, for cor. of secs. 7-12-13 and 18, marked with 4 notches on S. and 2 notches on N. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor..  
 Pits impracticable.  
 Land, mountainous and level.  
 Soil, clay and rocky, 3rd. rate.  
 No timber.  
 Mountainous land or dense undergrowth on 80.00 chs.

## East Boundary of T.21 S., R.17 E.

CHAINS	North, bet. secs. 7 and 12.
	Ascend over rocky land.
2.00	Rocky ridge, bears N.E. and S.W.
	Abrupt descent.
5.00	Hollow, 100 ft. deep, course S.W.
	Abrupt ascent over clay.
20.90	Clay ridge, bears N.E. and S.W.
	Abrupt descent.
24.50	Hollow, 100 ft. deep, course W.
	Abrupt ascent.
26.00	Clay spur, projects W.
	Descend.
28.25	Hollow, 100 ft. deep, course S.W.
	Ascend.
31.00	Clay spur, projects S.W.
	Descend.
34.00	Hollow, 100 ft. deep, course S.W.
	Abrupt ascent.
40.00	Top of clay spur, projects S.W.
	Set a sandstone, 20x10x6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	North of this cor. within 15.00 chs., there will be encountered sandstone ledges, bearing N. and W. about 1500 ft. high. On account of a perpendicular wall running along the face of the ledges, it is impossible to scale them at any point reasonably near this line.
	I discontinue my line at this cor.
	Land, mountainous.
	Soil, rocky and clay, 3rd. rate.
	No timber.
	Mountainous land on 40.00 chs.
	January 3, 1906.

## Boundaries of T.21 S., R.17 E.

Latitudes, departures and closing errors.

Line Designated	True Bearing	Distance	Latitudes N.	Latitudes S.	Departures E.	Departures W.
East Bdy. T.21 S.R.16 E.						
E.bdy.sec.36,	North	80.76	80.76			
" " 25,	N. $^{\circ}$ 04'E.	81.41	81.41		.09	
" " 24,	N. $^{\circ}$ 021'E.	81.61	81.61		.49	
" " 13,	N. $^{\circ}$ 05'W.	80.72	80.72			.12
" " 12,	N. $^{\circ}$ 13'W.	40.43	40.43			.15
" " "	N. $^{\circ}$ 17'E.	40.12	40.12		.20	
" " 1,	N. $^{\circ}$ 40'W.	40.32	40.32			.47
	North	82.61	82.61			
4th. Stan. Par. S.						
S.bdy.sec.35,	S. $^{\circ}$ 89'27'E.	56.99			.55	56.99
" " 36,	S. $^{\circ}$ 89'35'E.	79.78			.58	79.78
" " secs.						
31-32 & 33,	East,	180.21			180.21	
Bet. secs. 2&3,	S.0 $^{\circ}$ 01'E.	126.69			.04	
" " 2&11,	S. $^{\circ}$ 89'59'E.	80.06			.02	80.06
" " 11&12,	S.0 $^{\circ}$ 01'E.	80.00			.02	
" " 12&13,	N. $^{\circ}$ 89'59'F.	79.94			.02	79.94
East Bdy.	South,	320.00			320.00	
South bdy.	S. $^{\circ}$ 89'56'W.	477.85			.56	477.85
Convergency					.58	
Totals			528.00	528.40	478.40	478.59
Error in lat. and dep.				528.00		478.40
					0.40	0.19

For general description, see Subdivisions of T.S1 S.R.17

*Harvey L. Gifford*  
U.S. Deputy Surveyor.

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by Harvey D. Heist,  
 United States Deputy Surveyor, to assist in running, measuring, and  
 fixing the lines and corners described in the foregoing field notes of the survey of  
the East Boundary of T. 21 S., R. 17 E. of the Salt Lake Base and  
Meridian, Utah,  
 giving the respective capacities in which they acted:

Robert R. Raycraft, Chainman.  
Claude Gresham, Chainman.  
Daniel R. Adams, Moundman.  
, Moundman.  
, Axman.  
, Axman.  
Willmer E. Tomlinson, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Harvey D. Heist,  
 United States Deputy Surveyor, in surveying all  
 parts or portions of the  
East Boundary of T. 21 S., R. 17 E.

of the Salt Lake  
 Base and meridian, in the state of Utah, which are represented  
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 monuments established, according to the instructions furnished by the United States Surveyor  
 General for Utah.

Robert R. Raycraft, Chainman.  
Claude Gresham, Chainman.  
Daniel R. Adams, Moundman.  
, Moundman.  
, Axman.  
, Axman.

Willmer E. Tomlinson, Flagman.

scribed and sworn to before me this 3rd.  
 day of January, 1906 }  
 151

SEAL  
ccccc

Harvey D. Heist  
U.S. Deputy Surveyor

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, ...Harvey D. Heist, ..... United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from ...Edward H. Anderson, ..... United States Surveyor General for ..... Utah, ..... bearing date ..... 3rd. day of ..... June, ..... 1905, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for ..... Utah, ..... the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of ..... the East Boundary of T. 21 S., R. 17 E.

..... of the Salt Lake Base and Meridian, in the state of Utah, which are represented by the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for ..... Utah, ..... and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

*Harvey D. Heist*  
United States Deputy Surveyor

Subscribed by said *Harvey D. Heist*, and sworn to before me  
this 14<sup>th</sup> day of June, 1905

000000  
SEAL  
000000

*Thomas Hull*  
U. S. Surveyor General for Utah

## APPROVAL.

## OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March, 18, 1905

The foregoing field notes of the survey of the East Boundary of Township 21 South, Range 17 East, of the Salt Lake Base and Meridian, Utah,

executed by ..... Harvey D. Heist and Earl V. Woolley,

under his contract No. 291, dated June 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, a survey they describe, are hereby approved.

*Thomas Hull*  
United States Surveyor Ge.

I certify that the foregoing transcript of the field notes of the above-described surveys in ..... has been correctly copied from the original notes on file in this office.

United States Surveyor Ge.

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4-679

BOOK A-340

M.M.L.

J.S.C.

FILED

MAR 15 1906

## FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-L-V-I-S-I-O-N-S

of

Township No. 21 South,

Range No. 17 East,

Of the Salt-Lake-Base-and Meridian,

in the state of Utah.

AS SURVEYED BY

Surveyor D. Heist and Earl V. Woolley, United States Deputy Surveyor, under their Contract No. 291, dated June 3, 1905

Survey commenced January 4, 1906

Survey completed January 10, 1906

High 13.79.01  
Low 96.14.32  
Avg 1-16-84 ✓

**NAMES AND DUTIES OF ASSISTANTS.**

Robert R. Raycraft Chairman.

Claude Gresham, Chairman.

Daniel R. Adams Moundman.

Willmer E. Tomlinson Flagman.

For preliminary affidavits see book "G" pp. 23 S., R. 17 E.

**Volume**

**#**

**R0340**

A-340

2884

high rain 0° clay

1-79-90		
1-79-92		
82 00	48.00	
79 88	65.00	
75 00	30.00	
49-94		
200 00		
1-79-96		
100 02		
26 00	54.00	
28 00	10000	
65.25	52.04	
100 06	14.75	
146 69	<del>80.21</del>	
2000 06	100000	
79 98	10000	
57 08	79.98	
2000 02	20008	
100000	10000	
79 98	2900	
100000	144.74	
100000	7998	
100004 ✓	10000	
77 72 ✓	10000 ✓	
100 00	100000 ✓	
1000 02	146.80	
77 53	10000	
10 00	10000	
600	7694	
3000	7000	
1000 02	7402	
76 71	7696	
147 25	5000	

33-79.01	26.143 2	56.55
13 10 9	11.845	20.29
		20.00

1-16-84

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139

BOOK A-340

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*Meanders Page*

## PRELIMINARY OATHS OF ASSISTANTS.

We, ..... and ..... do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain upon even and uneven ground, and plumb the tally plus, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the said

Chris

Chas

Subscribed and sworn to before me this }  
day of ....., 190 }  
V



We, ..... and ..... do solemnly swear that we will well and truly perform the duties of triangulation in the setting of corners, according to the instructions given us, to the best of our skill and ability, in the said

Moses

Moses

Subscribed and sworn to before me this }  
day of ....., 190 }  
V



We, ..... and ..... do solemnly swear that we will well and truly perform the duties of armen in the establishment of a and other duties, according to instructions given us, to the best of our skill and ability, in the said

John

Subscribed and sworn to before me this }  
day of ....., 190 }  
V



I, ..... do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, survey of ....., in the said

Flag

Subscribed and sworn to before me this }  
day of ....., 190 }  
V



## Subdivisions of T. 21 S., R. 17 E.

INS	<p>Survey commenced, January 4, 1906, and executed with the instrument described in book "A", of this survey. I know the instrument to be in adjustment, from recent observations made December 31, 1905 and January 1, 1906, and recorded in book "G", of this survey.</p> <p>I begin at the reestablished cor. of secn. 1-2-35 and 36, heretofore described on the S.bdy. of the Tp.</p> <p>At 8h. 05m., a.m., l.m.t., I set off <math>38^{\circ}56'N.</math> on lat.arc, <math>22^{\circ}42'S.</math> on decl.arc, and determine a meridian with the solar, thence I run</p> <p><math>4.0^{\circ}01'E.</math>, bet.secns. 35 and 36.</p> <p>Descend abruptly over clay land.</p>
8.50	Road from Little Grande to Green River, bears N.W. and S.E. in bottom of hollow, 100 ft. deep, course N.W.
	Abrupt ascent.
18.00	Clay spur, projects W.
	Abrupt descent.
38.50	Hollow, 100 ft. deep, course W.
	Arcend.
40.00	Set a redwood post, 3 ft. long, 4 inn. sq., with marked stone, 24 inn. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{2}S$ 35 on W. and 36 on E. face, dig pitn, 1ex18x12 inn., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
40.50	Clay spur, projects W.
	Descend.
45.00	Hollow, 100 ft. deep, course W.
	Arcend.
48.00	Clay spur, projects W.
	Descend.
56.00	Hollow, 100 ft. deep, course S.W.
	Abrupt ascent.
51.45	Spur, projects W.
	Abrupt descent.
50.00	Set a sandstone, 15x15x10 inn., 10 inn. in the ground, for

## Subdivisions of T. 21 S., R. 17 E.

CHAINS	cor. of secs. 25-26-35 and 36, marked with 1 notch on S. and E. edges, dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, mounta inous. Soil, clay, 3rd. rate. No timber. Mountainous land on 80.00 chs.
	N. $89^{\circ}56' E.$ , on a random line, bet. secs. 25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	Intersect E. bdy. of Tp., 5 lks. S. of the cor. of secs. 25-30-31 and 36. heretofore described. Thence I run S. $89^{\circ}54' W.$ , on a true line, Bet. secs. 25 and 36. Descend over broken clay land.
59.85	Hollow, 100 ft. deep, course S.W. Begin abrupt ascent.
59.95	Set a sandstone, 15x8x8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
43.80	Clay spur, 200 ft. high, projects S.W. Abrupt descent.
51.50	Hollow, 100 ft. deep, course S.W. Abrupt ascent.
61.00	Top of flat topped ridge, bears N.E. and S.W. Over level land.
66.00	Begin abrupt descent, bears N.E. and S.W.
79.90	The cor. of secs. 25-26-35 and 36. Land, mountainous. Soil, clay, 3rd. rate. No timber. Mountainous land on 79.90 chs.

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

N. 0° 01' W., bet. secs. 25 and 26.

Descend over clay land.

8.25 Hollow, 150 ft. deep, course S.W.

Abrupt ascent.

20.00 Top of abrupt ascent, bears N.E. and S.W.

Over level plateau.

27.00 Begin descent over broken clay land, bears N.E. and S.W.

40.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 26 on W. and 25 on E. faces, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

68.75 Hollow, 100 ft. deep, course S.W. Ascend.

70.14 Rio Grande Western Railroad, on curve, bearing S.E. and S.W.

71.00 Telegraph line, bears E. and W.

80.00 Set a sandstone, 20x8x5 ins., 15 ins. in the ground, for cor. of secs. 23-24-25 and 26, marked with 2 notches on S. and 1 notch on E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous,

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

N. 89° 54' E., on a random line, bet. secs. 24 and 25.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.79.92 Intersect E. bdy. of Tp., 5 lks. N. of the cor. of secs. 19-24-25 and 30, heretofore described,  
Thence I run

S. 89° 56' W., on a true line,

Bet. secs. 24 and 25.

Ascend over rocky land.

1.25 Rocky spur, projects N.

Descend.

## Subdivisions of T. 21 S., R. 17 E.

CHAINS	
4.75	Hollow, 100 ft. deep, course S.W. Abrupt ascent.
18.00	Rocky spur, projects S.W. Abrupt descent.
22.00	Hollow, 150 ft. deep, course S. Abrupt ascent.
35.00	Spur, projects S. Abrupt descent.
39.96	Set a sandstone, 36x10x6 ins., 27 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
40.50	Hollow, 100 ft. deep, course S. Abrupt ascent.
47.00	Ridge, bears N.E. and S.W. Abrupt descent.
53.00	Hollow, 75 ft. deep, course N.W. Ascend.
59.00	Rocky spur, projects N. Descend.
64.75	Same hollow, 100 ft. deep, course S.W. Ascend.
69.00	Spur, projects S. Descend.
79.92	The cor. of secs. 23-24-25 and 26. Land, mountainous. Soil, rocky and clay, 3rd. rate. No timber. Mountainous land on 79.92 chs.
	January 4: At this cor. I set off $22^{\circ}44'$ S. on decl. arc, and at 12h. 05m., l.m.t., observe the sun on the meridian, the resulting lat. is $38^{\circ}58'N.$

-5-

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

N. 0° 01' W., bet. secs. 23 and 24.

Ascend abruptly over broken clay land.

- 10.50 Ridge, 150 ft. above sec. cor., bears E. and W.  
Abrupt descent.
- 32.00 Foot of abrupt descent, bears N.E. and S.W.  
Over-level land.
- 40.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone  
24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 23 on W.  
and 24 on E. face, dig pits, 18x18x12 ins., N. and S. of post,  
3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, W. of cor.

- 80.00 Set a sandstone, 18x10x7 ins., 12 ins. in the ground, for  
cor. of secs. 13-14-23 and 24, marked with 3 notches on S.  
and 1 notch on E, edges, and raise a mound of stone, 2  
ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

Land, mountainous and level.

Soil, rocky and clay on 32.00 chs., 2nd rate.

balance clay loam, 2nd. rate.

No timber.

Mountainous land on 32.00 -chs.

N. 89° 56' E., on a random line, bet. secs. 13 and 24.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.

- 79.88 Intersect E. bdy. of Tp., 3 lks. N. of the cor. of secs.  
13-18-19 and 24, heretofore described.

Thence I run

S. 89° 57' W., on a true line,

Bet. secs. 13 and 24.

Over level land, through dense greasewood brush.

- 4.00 Wash, 1.00 ch. wide, 10 ft. deep, course N.W.

- 7.00 Same wash, 1.00 ch. wide, 10 ft. deep, course W.

Thence along wash.

- 23.50 Leave wash, course N.W.

- 39.94 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone,

## Subdivisions of T.21 S., R.17 E.

CHAINS	24 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S 13 on N.face and 24 on S.face,dig pits,18x18x12 ins.,E.and W.of post,3 ft.dist.,and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high,N.of cor.
71.00	Same wash,1.00 chs.wide,10 ft.deep,course S.W.
79.00	Same wash,2.00 chs.wide,15 ft.deep,course N.W.
79.88	The cor.of secs.13-14-23 and 24. Land,level. Soil,clay loam,2nd.rate. No timber. Dense undergrowth on 79.88 chs.
	N.0°01'W.,betsecs.13 and 14. Over level land.
1.50	Wash,2.00 chs.wide,15 ft.deep,course N.W.
37.50	Wash,50 lks.wide,30 ft.deep,course W.
40.00	Set a redwood post,3 ft.long,3 ins.sq.,with marked stone,24 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S 14 on W. and 13 on E.faces,dig pits,18x18x12 ins.,N.and S.of post,3 ft.dist.,and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft.high,W.of cor.
42.00	Wash,20 lks.wide,10 ft.deep,course S.W.
65.00	Begin abrupt ascent over clay,bears E.and W.
75.00	Clay spur,projects S.W. Descend.
79.25	Hollow,75 ft.deep,course S.W. Ascend.
80.00	Set a sandstone,28x10x8 ins.,21 ins.in the ground,for cor.of secs.11-12-13 and 14.,marked with 4 notches on S. and 1 notch on E.edges,and raise a mound of stone,2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor. Pits impracticable.
	Land,level and mountainous. Soil,clay loam on 65.00 chs.,2nd.rate. balance clay,3rd.rate.

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

No timber.

Mountainous land on 15.00 chs.

N. 89° 57' E., on a random line, bet. secs. 12 and 13.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.94 Intersect E. bdy. of Tp., 5 lks. N. of the cor. of secs. 7-12-13 and 18, heretofore described.

Thence I run

S. 89° 59' W., on a true line,  
Bet. secs. 12 and 13.

Ascend over rocky land.

4.75 Rocky ridge, bears N.E. and S.W.

Abrupt descent.

15.75 Hollow, 100 ft. deep, course S.W.

Abrupt ascent.

16.75 Rocky spur, projects S.W.

Abrupt descent.

20.00 Hollow, 100 ft. deep, course S.W.

Abrupt ascent.

26.70 Clay spur, projects S.W.

Abrupt descent.

30.00 Foot of abrupt descent, bears N.W. and S.E.

Over level land.

39.37 Set a redwood post., 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 12 n N. face, 13 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist, and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

53.25 Wash, 30 lks. wide, 20 ft. deep, course S.

60.00 Begin ascent over clay land, bears N.E. and S.W.

75.00 Clay ridge, bears N.E. and S.W.

Descend.

79.50 Hollow, 75 ft. deep, course S.W.

Ascend.

79.94 The cor. of secs. 11-12-13 and 14.

## Subdivisions of T. 21 S., R. 17 E.

CHAINS	Land, mountainous and level. Soil; clay loam on 30.00 chs., 2nd. rate. balance, clay and rocky, 3rd. rate. No timber. Mountainous land on 49.94 chs.
	N. 0° 01' W., bet. secs. 11 and 12.
	Ascend over clay land.
16.00	Enter plateau, bears N.E. and S.W. Over level land, through dense artemisia.
28.00	Leave plateau, bears N.E. and S.W. Descend over broken clay land.
40.00	Set a redwood post., 3 ft. long, 4 ins. sq, with marked stone, 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. 11, on W. and 12 on E. faces, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
54.00	Hollow, 100 ft. deep, course S.W. Ascend.
64.25	Spur, projects S.W. Descend.
66.25	Hollow, 100 ft. deep, course S.W. Ascend.
75.00	Ridge, bears N.E. and S.W. Descend.
80.00	Set a sandstone, 36x10x5 ins., 27 ins. in the ground, for cor. of secs. 1-2-11 and 12, marked with 5 notches on S. and 1 notch on E. edges, dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land mountainous. Soil Clay, 3rd. rate. No timber. Mountainous land or dense undergrowth on 80.00 chs.

Subdivisions of T. 21 S., R. 17 E.

## CHAINS

## NOTE:

The lines bet. secs. 1 and 12, and secs. 1 and 2, fall upon inaccessible sandstone ledges, therefore I abandon this tier of secs. at the cor. of secs. 1-2-11 and 12.

---

January 5: At 8h.05m., a.m., l.m.t., I set off  $38^{\circ}56'N.$  on lat. arc.,  $22^{\circ}35'S.$  on decl. arc, and determine a meridian with the solar, at the reestablished cor. of secs. 2-3-34 and 35, heretofore described, on the S.bdy. of the Tp.  
Thence I run

N.  $0^{\circ}01'W.$ , bet. secs. 34 and 35.

Ascend over broken clay land.

21.00 Spur, projects S.W.

Abrupt descent.

30.50 Hollow, 100 ft. deep, course S.W.

Ascend.

40.00 Set a sandstone,  $22 \times 12 \times 4$  ins., 16 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, dig pits,  $18 \times 18 \times 12$  ins., N. and S. of stone, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

58.00 Road from Little Grande to Green River, bears N.W. and S.

68.00 Enter plateau, bears E. and W.

Over level land, through dense artemisia.

80.00 Set a sandstone,  $24 \times 7 \times 6$  ins., 18 ins. in the ground, for cor. of secs. 26-27-34 and 35, marked with 1 notch on S. and 2 notches on E. edges, dig pits,  $18 \times 18 \times 12$  ins., in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous and level.

Soil, clay, 3rd. rate.

No timber.

---

Mountainous land or dense undergrowth on 80.00 chs.

## Subdivisions of T. 21 S., R. 17 E.

CHAINS	N. 89° 56' E., on a random line, bet. secs. 26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line, 3 lks. N. of the cor. of secs. 25-26-35 and 36. Thence I run
	S. 89° 57' W., on a true line, Bet. secs. 26 and 35.
	Descend abruptly over clay land.
4.50	Hollow, 100 ft. deep, course S.W.
	Ascend.
14.50	Spur, projects S.
	Descend.
22.00	Hollow, 75 ft. deep, course S.
	Ascend.
26.00	Spur, projects S.
	Descend.
33.50	Hollow, 100 ft. deep, course S.
	Abrupt ascent.
34.50	Enter plateau, bears N.E. and S.W.
	Over level land, through dense artemisia.
39.98	Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
79.96	The cor. of secs. 26-27-34 and 35. Land, mountainous and level. Soil, clay, 3rd. rate. No timber. Mountainous land or dense undergrowth on 79.96 chs.
	N. 0° 01' W., bet. secs. 26 and 27. Over level land, through dense artemisia.
6.00	Begin abrupt descent, bears N.E. and S.W.
10.00	Hollow, 100 ft. deep, course W. Abrupt ascent.

## Subdivisions of T.21 S., R.17 E.

- 13.40 Spur, projects W.  
Abrupt descent.
- 22.50 Hollow, 150 ft. deep, course S.W.  
Ascend over broken clay land.
- 40.00 Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 27 on W. and 26 on E. faces, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 48.56 Rio Grande Western Railroad, bears N.  $74^{\circ}20' E.$  and S.  $74^{\circ}20' W.$
- 49.30 Telegraph line, bears N.  $74^{\circ}20' E.$  and S.  $74^{\circ}20' W.$
- 80.00 Set a sandstone, 28x10x10 ins., 21 ins. in the ground, for cor. of secs. 22-23 26 and 27, marked with 2 notches on S. and E. edges, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.  
Land, mountainous.  
Soil, clay, 3rd. rate.  
No timber.  
Mountainous land or dense artemisia on 80.00 chs.

N.  $89^{\circ}57' E.$ , on a random line, bet. secs. 23 and 26.

- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.02 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 23-24-25 and 26.

Thence I run

S.  $89^{\circ}58' W.$ , on a true line,  
Bet. secs. 23 and 26.

Descend over clay land.

- 9.00 Hollow, 75 ft. deep, course S.

Ascend.

- 37.00 Spur, projects S.

Descend.

- 39.00 Hollow, 75 ft. deep, course S.

Ascend.

## Subdivisions of T.21 S., R.17 E.

## CHAINS

- 40.01 Set a sandstone, 24x6x4 ins., 18 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  on N. face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.
- 64.00 Begin abrupt ascent, bears N.E. and S.W.
- 67.00 Clay spur, 100 ft. high, projects S.  
Abrupt descent.
- 78.00 Hollow, 75 ft. deep, course S.  
Ascend.
- 80.02 The cor. of secs. 22-23-26 and 27.  
Land, mountainous.  
Soil, clay, 3rd. rate.  
No timber.  
Mountainous land on 80.02 chs.

N. 0°01'W., bet. secs. 22 and 23.

Ascend abruptly over broken clay land.

- 11.00 Ridge, bears E. and W.  
Abrupt descent.
- 26.00 Foot of descent, bears E. and W.  
Over level land.
- 40.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S 22 on W. and 23 on E. faces; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.
- 80.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. of secs. 14-15-22 and 23, marked T.21 S., S.14, on N.E.,  
R.17 E., S.23, on S.E.,  
S.22 on S.W., and  
S.15 on N.W. face, with 3 notches on S. and 2 notches on E. edges, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- 3

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## Subdivisions of T. 31 S., R. 17 E.

Chains. Land mountainous and level.

Soil clay on 26.00 chs., 3rd rate; balance clay loam, 2nd rate.

No timber.

Mountainous land on 26.00 chs.

January 5: At this cor. I set off  $22^{\circ} 37' S.$  on decl. arc; and at 12 h. 05 m.l.m.t., observe the sun on the meridian, the resulting lat. is  $38^{\circ} 59' N.$

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$N.89^{\circ} 58' W.$  on a random line bet. secs. 14 and 23,

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.00 Intersect N.and.S.line, 3 lks.S.of the cor.of secs.

13,14,23, and 24. Thence I run

$S.89^{\circ} 57' W.$  on a true line bet. secs. 14 and 23,

Over level land.

31.00 Wash 2.00 chs.wide, 15 ft.deep, course N.W.

40.00 Set a redwood post, 3 ft.long, 3 ins.sq., with marked stone, 24 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4} S 14$  on N.face, and 23 on S.face; dig pits 18x18x 12 ins.E. and W.of post, 3 ft.dist., and raise a mound of earth  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high N.of cor.

80.00 The cor.of secs. 14,15,22, and 23.

Land level.

Soil clay loam; 2nd rate.

No timber.

---

$N.0^{\circ}01' W.$  bet. secs. 14 and 15,

Over level land.

2.75 Wash 1.000ch.wide, 10 ft.deep, course W.

40.00 Set a redwood post, 3 ft.long, 3 ins.sq., with marked stone, 24 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4} S 15$  on W.face, 14 on E.face; dig pits 18x18x12

Subdivisions of T. 21 S., R. 17 E.

- Chains. ins. N. and S. of post 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high W. of cor.
- 80.00 Set a redwood post 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. or secs. 10, 11, 14 and 15, marked  
 T 21 S S 11 on N.E.  
 R 17 E S 14 on S.E.  
 S 15 on S.W., and  
 S 10 on N.W. face, with 4 notches on S. and 2 notches on E. edges; dig pits 18x18x12 ins. in each sec.  $5\frac{1}{2}$  ft. dist., and raise a mound of earth 4 ft. base, 2 ft. high W. of cor.
- Land level.
- Soil clay loam; 2nd rate.
- No timber.

- N. $88^{\circ} 57' E.$  on a random line bet. secs. 11 and 14,
- 40.00 Set temp.  $\frac{1}{2}$  sec. cor.
- 80.04 Intersect N. and S. line 5 lks. N. of the cor. of secs. 11, 12, 13, and 14. Thence I run  
 S. $89^{\circ} 59' W.$  on a true line bet. secs. 11 and 14,  
 Ascend over clay land.
- 21.00 Begin abrupt ascent bears N. and S.
- 25.80 N. end of clay bluff, 150 ft. high, length N. and S. 6.00 chs. Abrupt descent.
- 28.00 Foot of abrupt descent, bears N. and S.  
 Over level land.
- 40.02 Set a sandstone  $4 \times 12 \times 5$  ins., 18 ins. in the ground, for  $\frac{1}{2}$  sec. cor., marked  $\frac{1}{2}$  on N. face; dig pits 18x18x12 ins. N. and W. of stone, 3 ft. dist., and raise a mound of earth  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high N. of cor.
- 80.04 The cor. or secs. 10, 11, 14, and 15.
- 27/9/93*  
*27/9/93* Land mountainous and level.  
 Soil clay on 28.00 chs., 3rd rate; balance clay loam.  
 2nd rate.

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## Subdivisions of T. 21 S., R. 17 E.

Chains No timber.

Mountainous land on 28.000 chs.

N.0°01'W.bet.secs.10 and 11

Ascend over clay land.

- 14.00 Ridge bears N.E. and S.W. Descend.
- 20.25 Hollow, 75 ft. deep, course W. Ascend.
- 39.50 Ridge bears E. and W. Abrupt descent.
- 40.00 Set a sandstone 15x10x4 ins., 10 ins. in the ground, for  
     $\frac{1}{2}$  sec.cor.. marked  $\frac{1}{4}$  on W.face; and raise a mound of  
    stone 2 ft. base,  $1\frac{1}{2}$  ft. high W.of cor.  
    Pits impracticable.
- 44.50 Enter bottom of wide hollow, 100 ft. deep, course S.W.  
    Over level land, broken by washes.
- 50.00 Wash 40 lks.wide, 10 ft. deep, course S.W.
- 59.25 Wash 50 lks.wide, 12 ft. deep, course SW.  
    Leave hollow, course S. W.  
    Begin abrupt ascent.
- 70.00 Ridge bears N.E. and S.W.  
    Descend.
- 80.00 Set a sandstone 28x12x8 ins., 21 ins. in the ground, for  
    cor.of secs.2,3,10, and 11, marked with 5 notches on  
    S. and 2 notches on E.edges; and raise a mound of  
    stone 2 ft. base,  $1\frac{1}{2}$  ft. high W.of cor.  
*(65.95  
T 4.1  
77.75)*  
    Pits impracticable.  
    Land mountainous and level.  
    Soil clay and rocky; 3rd rate.  
    No timber.  
    Mountainous land on 65.25 chs.

N.89° 59'E. on a random line bet.secs.2 and 11

- 40.00 Set temp. $\frac{1}{2}$  sec.cor.
- 80.06 Intersect N. and S.line 5 lks.N.of the cor.of secs.1,2,

## Subdivisions of T. 21 S., R. 17 E.

Chains	11 and 12. Thence I run N. $89^{\circ} 59' W.$ on a true line bet. secs. 2 and 11, Descend over rocky and clay land.
3.50	Hollow, 75 ft. deep, course N.W. Ascend.
6.75	Spur projects N. Descend.
18.25	Same hollow, 100 ft. deep, course S.W. Ascend.
22.00	Spur projects S.W. Descend.
29.25	Hollow, 50 ft. deep, course S.W. Ascend.
35.00	Ridge bears N.E. and S.W. Descend.
40.03	Set a sandstone 30x8x6 ins., 22. ins. in the ground, for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ on N.face, and raise a mound of stone. 2 ft. base., $1\frac{1}{2}$ ft. high N. of cor. Pits impracticable..
56.50	Hollow, 75 ft. deep, course S.W. Ascend.
60.00	Ridge bears N.E. and S.W. Descend.
80.06	The cor. of secs. 2, 3, 10, and 11. Land mountainous. Soil clay and rocky; 3rd rate. No timber. Mountainous land on 80.06 chs.

The north bdy. of the Tp. is the Fourth Standard Parallel South, therefore I run

N. $0^{\circ} 01' W.$  on a true line bet. secs. 2 and 3,  
Descend over clay land.

2.50 Hollow, 75 ft. deep, course W..

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## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

Ascend over rolling clay land.

40.00 Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone  
34 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 3 on W.  
and 2 on E. faces, dig pits, 18x18x12 ins., N. and S. of post,  
3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, W. of cor.

71.00 Ridge, bears N.E. and S.W.

Descend over broken land.

106.00 Hollow, 100 ft. deep, course S.W.

Ascend over broken land.

126.69 Intersect Fourth Standard Parallel South, 20.21 chs. E.  
of the standard cor. of secs. 32 and 33, heretofore  
described.

Set a sandstone, 30x14x10 ins., 22 ins. in the ground, for  
closing cor. of secs. 2 and 3, marked C C on S., with 2 grooves  
on E. and 4 grooves on W. faces, and raise a mound of stone  
2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.

Pits impracticable.

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 126.69 chs.

January 5, 1906.

January 6: At 8h. 06m., a.m., 1.m.t., I set off  $38^{\circ}56'N.$  on  
lat. arc,  $22^{\circ}29'S.$  on decl. arc, and determine a meridian with  
the solar, at the reestablished cor. of secs. 3-4-33 and 34  
heretofore described, on the S.bdy. of the Tp.

Thence I run

N.  $0^{\circ}02'W.$ , bet. secs. 33 and 34.

Descend over gravelly land.

.30 Head of hollow, course S.W.

Ascend.

1.25 Ridge, bears N.E. and S.W.

Descend.

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

- 4.25 Hollow, 75 ft. deep, course S.W.  
Ascend.
- 7.25 Ridge, bears N.E. and S.W.  
Descend over broken clay land.
- 32.00 Hollow, 100 ft. deep, course S.W.  
Ascend.
- 40.00 Set a sandstone, 15x10x8 ins., 10 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.  
Pits impracticable.
- 45.00 Clay spur, 100 ft. high, projects E.  
Abrupt descent.
- 54.00 Hollow, 100 ft. deep, course S.E.  
Ascend.
- 67.70 Spur, projects E.  
Descend.
- 70.85 Hollow, 100 ft. deep, course S.E.  
Ascend along same hollow, course S.
- 79.00 Leave hollow, course from N.W. to S.  
Ascend.
- 80.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. of secs. 27-28-33 and 34, marked T. 21 S., S. 27 on N.E.,  
R. 17 E., S. 34 on S.E.,  
S. 33 on S.W., and  
S. 28 on N.W. face, with 1 notch on S. and 3 notches on E. edges, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.  
Land, mountainous.
- Soil, gravel and clay, 3rd. rate.  
No timber.  
Mountainous land on 80.00 chs.

## Subdivisions of T.21 S., R.17 E.

## CHAINS

N.89°56'E., on a random line, bet. secs. 27 and 34.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.06 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 26-27-34 and 35.

Thence I run

S.89°57'W., on a true line,

Bet. secs. 27 and 34.

Over level plateau, through dense artemisia.

15.00 Begin abrupt descent, bears N.E. and S.W.

21.00 Hollow, 150 ft. deep, course S.W.

Ascend.

32.00 Road, from Little Grande to Green River, bears N.W. and S.E.

34.00 Clay ridge, bears N. and S.

Descend.

40.03 Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 27 on N. and 34 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

43.00 Hollow, 75 ft. deep, course S.W.

Ascend.

62.00 Ridge, bears N. and S.

Abrupt descent.

80.06 The cor. of secs. 27-28-33 and 34.

Land, mountainous and level.

Soil, clay, 3rd. rate.

No timber.

Mountainous land or dense undergrowth on 80.06 chs.

N.0°02'W., bet. secs. 27 and 28.

Ascend over rolling clay land.

27.00 Ridge, bears N.E. and S.W.

Descend.

40.00 Set a charred cottonwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked

## Subdivisions of T. 21 S., R. 17 E.

CHAINS	
	$\frac{1}{2}$ S 28 on W.face and 27 on E.face, dig pits, 18x18x12 ins. N. and S. of post., 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
45.35	Road, from Little Grande to Green River, bears N.W. and S.E.
64.95	A short tangent on the Rio Grande Western Railroad, bears N. 60° 15' W. and S. 60° 15' E.
65.75	Telegraph line, bears N.W. and S.E.
80.00	Set a sandstone, 14x8x6 ins., 10 ins. in the ground, for cor. of secs. 21-22-27 and 28, marked with 2 notches on S. and 3 notches on E.edges, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$ ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, rolling.
	Soil, clay, 3rd. rate.
	No timber..
	<hr/>
	N. 89° 57' E., on a random line, bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 22-23-26 and 27.
	Thence I run
	S. 89° 59' W., on a true line,
	Bet. secs. 22 and 27..
	Ascend over broken clay land.
32.00	Ridge, bears N.E. and S.W.
	Descend.
39.98	Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{2}$ S 22 on N. face, 27 on S.face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
49.50	Hollow, 100 ft. deep, course N.
	Ascend..
61.45	Spur, projects N.
	Abrupt descent.

Subdivisions of T. 21 S., R. 17 E.

## CHAINS

79.96 The cor. of secs. 21-22-27 and 28.

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 79.96 chs.

N. 0°02' W., bet. secs. 21 and 22.

Descend over rolling clay land.

40.00 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 21 on W. face, 22 on E. face, dig pits, 18x18x12 ins., N. and S. of post 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

50.00 Foot of descent, bears E. and W.

Over level land.

80.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. of secs. 15-16-21 and 22, marked T. 21 S., S. 15, on N.E.

R. 17 E., S. 22 on S.E.,

S. 21, on S.W., and

S. 16 on N.W. face, with 3 notches on S. and E. edges, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling and level.

Soil, clay loam, 2nd rate.

No timber.

January 6: At this cor. I set off 22°31'S. on decl. arc, and at 12h. 06m., l.m.t., observe the sun on the meridian, the resulting lat. is 38°59' N.

N. 89°59' E., on a random line, bet. secs. 15 and 22.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.98 Intersect N. and S. line, 3 lks. S. of the cor. of secs.

14-15-22 and 23.

## Subdivisions of T. 21 S., R. 17 E.

CHAINS	
	Thence I run
	S.89°58'W., on a true line,
	Bet. secs. 15 and 22.
	Over level land.
24.00	Wash, 75 lks. wide, 10 ft. deep, course S.W.
39.99	Set a sandstone, 20x12x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Pits impracticable.
40.50	Same wash, 75 lks. wide, 10 ft. deep, course N.W.
79.98	The cor. of secs. 15-16-21 and 22.
	Land, level.
	Soil, clay loam, 2nd. rate.
	No timber.
	 N.0°02'W., bet. secs. 15 and 16.
	Over level land.
2.50	Wash, 75 lks. wide, 10 ft. deep, course W.
40.00	Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S 16 on W. face, 15 on E. face, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
61.00	Begin ascent, bears E. and W.
80.00	Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. of secs. 9-10-15 and 16, marked T. 21 S., S. 10 on N.E., R. 17 E., S. 15 on S.E., S. 16 on S.W., and S. 9 on N.W. face, with 4 notches on S. and 3 notches on E. edges, dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
	Land, level and rolling.
	Soil, clay loam, 2nd. rate.
	No timber.

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

N. 89° 58' E., on a random line, bet. secs. 10 and 15.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.08 Intersect N. and S. line, at the cor. of secs. 10-11-14 and 1.

Thence I run

S. 89° 58' W., on a true line,

Bet. secs. 10 and 15.

Over level land.

3.00 N. edge of clay knoll, 100 ft. high,

40.04 Set a sandstone, 18x6x4 ins., 12 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on N. face, dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

52.00 Begin ascent, bears N.E. and S.W.

80.08 The cor. of secs. 9-10-15 and 16.

Land, level and rolling.

Soil, clay loam. 2nd, rate.

No timber.

N. 0° 02' W., bet. secs. 9 and 10.

Ascend over clay land.

8.00 Ridge, bears E. and W.

Descend.

12.50 Hollow, 50 ft. deep, course W.

Ascend.

17.50 Rocky spur, projects W.

Descend.

21.00 Hollow, 50 ft. deep, course W.

Ascend.

24.00 Spur, projects W.

Descend.

30.00 Foot of descent, bears N.E. and S.W.

Over level land.

40.00 Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 9 on W. face and 10 on E. face, dig pits, 18x18x12 ins., N. and S. of

## Subdivisions of T. 21 S., R. 17 E.

CHAINS	pest, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base 1 $\frac{1}{2}$ ft. high W. of cor.
61.00	Wash, 15 lks. wide, 10 ft. deep, course S.W.
62.00	Begin ascent, bears N.E. and S.W.
80.00	Top of ridge, bears N.E. and S.W. Set a sandstone, 15x10x8 ins., 10 ins. in the ground, for cor. of secs. 3-4-9 and 10, marked with 5 notches on S. and 3 notches on E. edges, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor... Pits impracticable. Land, rolling and level. Soil, rocky and clay. No timber.
	N. $89^{\circ}58' E.$ , on a random line, bet. secs. 3 and 10.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 3 lks. S. of the cor. of secs. 2-3-10 and 11. Thence I run
	S. $89^{\circ}57' W.$ , on a true line, Bet. secs. 3 and 10. Descend over rolling clay land.
29.00	Hollow, 75 ft. deep, course S.W. X Ascend.
40.03	Spur, projects S.W. X Set a sandstone, 26x10x5 ins., 19 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ on N. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. Descend.
46.00	Hollow, 75 ft. deep, course S.W. X Ascend.
74.00	Abrupt ascent, bears N.E. and S.W.
80.06	The cor. of secs. 3-4-9 and 10, on ridge, bears N.E. and S.W.

## Subdivisions of T.21 S., R.17 E.

## CHAINS.

Land, rolling and mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 51.06 chs.

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The north bdy. of the Tp. is the Fourth Standard Parallel South, therefore I run

N.0°02'W., on a true line,

Bet. secs. 3 and 4.

Descend over clay land.

3.50 Hollow, 50 ft. deep, course S.W.

Ascend.

8.00 ridge, bears N.E. and S.W.

Descend.

25.00 Hollow, 75 ft. deep, course S.W.

Ascend over rolling land.

40.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone

24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. 4 on W.

face, 3 on E. face, dig pits, 18x18x12 ins., N. and S. of post,

3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.

high, W. of cor.

112.50 Spur, projects S.W.

Descend.

126.74 Intersect the Fourth Standard Parallel South, 20.25 chs.

E. of the standard cor. of secs. 31 and 32, heretofore described

Set a pine post, 3 ft. long, 4 ins. sq., with marked stone,

24 ins. in the ground, for closing cor. of secs. 3 and 4,

marked C C T.21 S.R.17 E., on S.,

S. 3 on E., and

S. 4 on W. face, with 3 grooves on E. and W. faces,

dig pits, 24x18x12 ins., crosswise on each line, E. and W.

3 ft. and S. of post, 7 ft. dist., and raise a mound of earth

4 ft. base, 2 ft. high, S. of cor.

Land, rolling.

Soil, clay, 3rd. rate.

No timber.

January 6, 1906.

## Subdivisions of T. 21 S., R. 17 E.

CHAINS	
	January 7: At 8h.06m., a.m., l.m.t., I set off 38°56' N. on lat.arc, 22°21'S. on decl.arc, and determine a meridian with the solar, at the reestablished cor. of secs. 4-5-32 and 33, heretofore described, on the S.bdy. of the Tp.
	Thence I run
	N. 0°03' W., bet. secs. 32 and 33.
	Ascend over rolling clay land,
4.50	Road to Green River, bears N.W. and S.E.
25.00	Begin abrupt ascent, bears N.W. and S.E.
27.25	Ridge, bears N.W. and S.E.
	Descend.
31.35	Head of hollow, course E.
	Ascend.
34.00	Ridge, bears N.E. and S.W.
	Descend.
40.00	Set a shale stone, 30x15x3 ins., 22 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ on W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
40.60	Head of hollow, course W.
	Ascend.
56.00	Begin abrupt ascent, bears N.W. and S.E.
64.75	Ridge, 200 ft. above $\frac{1}{4}$ sec.cor., bears N.W. and S.E.
	Descend.
80.00	Set a limestone, 30x12x3 ins., 23 ins. in the ground, for cor. of secs. 28-29-32 and 33, marked with 1 notch on S. and 4 notches on E. edges, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	Land, mountainous.
	Soil, clay, 3rd. rate.
	No timber.
	Mountainous land on 80.00 chs.

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

N. 89° 56' E., on a random line, bet. secs. 28 and 33.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. and S. line, 5 lks. N. of the cor. of secs.

27-28-33 and 34.

Thence I run..

S. 89° 58' W., on a true line,

Bet. secs. 28 and 33.

Descend over clay land.

.50 Hollow, 100 ft. deep, course S.

Abrupt ascent.

5.50 Spur, projects N.E.

Descend.

7.75 Hollow, 50 ft. deep, course N.E.

Ascend.

13.00 Ridge, bears N.W. and S.E.

Descend.

17.75 Hollow, 50 ft. deep, course S.E.

Ascend.

27.00 Ridge, bears N.W. and S.E.

Descend.

32.00 Hollow, 50 ft. deep, course N.W.

Ascend.

40.01 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone  
24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. 28, on N.  
and 33 on S. faces, dig pits, 18x18x12 ins., E. and W. of post  
3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, N. of cor.

80.02 The cor. of secs. 28-29-32 and 33.

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 80.02 chs.

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS.

N. 0°03' W., bet. secs. 28 and 29.

Descend over rolling clay land.

46.00 Hollow, 150 ft. below sec. cor., course N.E.

Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 29 on W. and 28 on E. faces, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Along E. slope in hollow.

49.50 Same hollow, 100 ft. deep, course N.W.

Ascend.

52.00 Clay spur, projects W.

Descend.

58.50 Hollow, 75 ft. deep, course W.

Ascend.

62.25 Ridge, bears N.W. and S.E.

Descend.

80.00 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. of secs. 20-21-28 and 29, marked T. 21 S., S. 21 on N.E.,

R. 17 E., S. 28 on S.E.,

S. 29 on S.W., and

S. 20 on N.W. face, with 2 notches on S. and 4 notches on E. edges, dig pits, 18x18x12 ins., in each sec., 5 $\frac{1}{2}$  ft. dist. and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

N. 89°58' W., on a random line, bet. secs. 21 and 28.

49.00 Set temp.  $\frac{1}{4}$  sec. cor.

79.98 Intersect N. and S. line, 3 1/2 m. S. of the cor. of secs. 21-22-27 and 28.

Thence I run

## Subdivisions of T.21 S., R.17 E.

## CHAINS

S,  $38^{\circ}57'W.$ , on a true line,

Bet. secs. 21 and 28.

Descend gradually over clay land.

21.15 Telegraph line, bears N. $55^{\circ}15'W.$  and S. $55^{\circ}15'E.$

22.36 Rio Grande Western Railroad, bears N. $55^{\circ}15'W.$  and S. $55^{\circ}15'E.$

32.50 Road from Green River to Little Grande, bears N.W. and S.E.  
in bottom of hollow, 50 ft. deep, course N.

Ascend over rolling land.

39.99 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone,  
24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4} S 21$  on N.  
and 28 on S. faces, dig pits, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, N. of cor.

79.98 The cor. of secs. 20-21-28 and 29.

Land, rolling.

Soil, clay, 3rd. rate.

No timber.

January 7: At this cor. I set off  $22^{\circ}23'S.$  on decl. arc, and  
at 12h. 06m., l.m.t., observe the sun on the meridian, the  
resulting lat. is  $38^{\circ}58'N.$

N. $0^{\circ}03'W.$ , bet. secs. 20 and 21.

Descend over rolling clay land.

35.85 Road from Little Grande to Green River, bears N.W. and S.E.

39.92 Rio Grande Western Railroad, bears N. $55^{\circ}15'W.$  and S. $55^{\circ}15'E$

40.00 Point for  $\frac{1}{4}$  sec. cor. falls on railroad grade, impracticable  
to set.

40.25 Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for  
witness cor. to  $\frac{1}{4}$  sec. cor., marked W C  $\frac{1}{4}$  on W. face, dig  
pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist., and raise  
a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

40.75 Telegraph line, bears N. $55^{\circ}15'W.$  and S. $55^{\circ}15'E.$

50.00 Foot of descent, bears E. and W.

Over level land.

-30-

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

- 80.00 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. of secs. 16-17-20 and 21, marked T. 21 S., S. 16 on N.E.  
 R. 17 E., S. 21, on S.E.  
 S. 20 on S.W., and  
 S. 17 on N.W. face, with 3 notches on S. and 4 notches on E. edges, dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.  
 Land, rolling, and level.  
 Soil, clay, 3rd. rate.  
 No timber.
- 
- N. 89°57' E., on a random line, bet. secs. 16 and 21.  
 40.00 Set temp.  $\pm$  sec. cor.  
 79.78 Intersect N. and S. line, 3 lkm. S. of the cor. of secs. 15-16-21 and 22.  
 Thence I run  
 S. 89°56' W., on a true line,  
 Bet. secs. 16 and 21.  
 Over level land, through dense artemisia.  
 4.00 Run, 40 lkm. wide, 10 ft. deep, course S.W.  
 17.50 Same width, 40 lkm. wide, 10 ft. deep, course N.W.  
 39.00 Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone 24 ins. in the ground, for  $\pm$  sec. cor., marked  $\pm$  S. 16 on N. and 21 on S. faces, dig pits, 18x18x18 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.  
 The cor. of secs. 16-17-20 and 21.  
 Land, level.  
 Soil, clay loam, 2nd. rate.  
 No timber.  
 Dense undergrowth on 79.00 chm.

## Subdivisions of T.21 S., R.17 E.

## CHAINS

N.0°03'W., bet. secs. 16 and 17.

Over level land, through dense artemisia.

16.25 Wash, 50 lks. wide, 10 ft. deep, course N.W.

27.00 Begin abrupt ascent.

30.00 Knoll, 100 ft. high, bears E. and W., 10.00 chs.

Abrupt descent.

34.00 Foot of abrupt descent, over level land.

40.00 Set a sandstone, 28x8x4 ins., 21 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

80.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone 24 ins. in the ground, for cor. of secs. 8-9-16 and 17, marked T:21 S., S.9 on N.E.,

R:17 E., S.16 on S.E.,

S.17 on S.W., and

S.8 on N.W. face, with 4 notches on S. and E. edges, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous and level.

Soil, clay loam on 73.00 chs., 2nd. rate.

balance, clay, 3rd. rate.

No timber.

Mountainous land or dense undergrowth on 80.00 chs.

N.89°56'W., on a random line, bet. secs. 9 and 16.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 9-10-15 and 16.

Thence I run

S.89°57'W., on a true line,

Bet. secs. 9 and 16.

Ascend over rolling clay land,

24.50 Clay spur, projects S.W.

Descend.

See Corrected  
Notes Book  
Page 1

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

- 40.01 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. 9 on N. face, and 16 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.
- See Corrective  
Notes Book 2  
Page 1*
- 41.00 Foot of descent, bears N.E. and S.W.  $\times$   $\times$   
Over level land.
- 80.02 The cor. of secs. 8-9-16 and 17.  
Land, rolling and level.  
Soil, clay loam, 2nd. rate.  
No timber.

January 7, 1906.

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January 8: At 8h. 07m., a.m., l.m.t., I set off  $39^{\circ}00'$  N. on lat. arc,  $22^{\circ}14'$  S. on decl. arc, and determine a meridian with the solar, at the cor. of secs. 8-9-16 and 17.

Thence I run

$N.0^{\circ}03'W.$ , bet. secs. 8 and 9.

Over level land.

- 5.00 Wash, 10 lks. wide, 10 ft. deep, course S.W.
- 40.00 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. 8 on W. face, 9 on E. face, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.
- 51.00 Enter sandy land.
- 80.00 Set a granite stone, 15x10x5 ins., 10 ins. in the ground, for cor. of secs. 4-5-8 and 9, marked with 5 notches on S. and 4 notches on E. edges, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.
- Land, level.
- Soil, clay loam and sand, 2nd. rate.
- No timber.
-

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

N. $89^{\circ}57' E.$ , on a random line, bet. secs. 4 and 9.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.00 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 3-4-9  
and 10.

Thence I run

S. $89^{\circ}59' W.$ , on a true line,

Bet. secs. 4 and 9.

Descend over rocky land.

7.50 Hollow, 50 ft. deep, course S.W.

Ascend.

15.00 Spur, projects S.W.

Descend.

26.00 Foot of descent, bears N.E. and S.W.

Over level land.

40.00 Set a sandstone, 24x6x6 ins., 18 ins. in the ground, for  $\frac{1}{4}$   
sec. cor., marked  $\frac{1}{4}$  on N. face, dig pits, 18x18x12 ins.,  
 $3 \text{ ft. dist.}$   
E and W. of stone and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  
 $1\frac{1}{2}$  ft. high, N. of cor.

80.00 The cor. of secs. 4-5-8 and 9.

Land, rolling and level.

Soil, rocky and clay on 26.00 chs., 3rd. rate.

balance, clay loam, 2nd. rate.

No timber.

The north bdy. of the Tp., is the Fourth Standard Parallel  
South, therefore I run

N. $0^{\circ}03' W.$ , on a true line,

Bet. secs. 4 and 5.

Over level sandy land.

40.00 Set a sandstone, 24x10x5 ins., 18 ins. in the ground, for  $\frac{1}{4}$   
sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone,  
2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

48.00 Wash, 50 lks. wide, 8 ft. deep, course S.W.

126.81 Intersect the Fourth Standard Parallel South, 20.29 chs.

## Subdivisions of T.21 S., R.17 E.

## CHAINS

E. of the Standard cor. of Tp. 20 S., Rs. 16 and 17 E., heretofore described.

Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for closing cor. of secs. 4 and 5, marked C C T.21 S., R.17 E., on S.

S.4, on E., and

S.5 on W. face, with 4 grooves on E. and 2 grooves on W. faces, dig pits, 24x18x12 ins., crosswise on each line, E. and W. 3 ft. and S. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, S. of cor.

Land, level.

Soil, sandy, 2nd. rate.

No timber.

January 8: At this cor. I set off .22° 16' S. on decl. arc, and at 12h. 07m., l.m.t., observe the sun on the meridian, the resulting lat. is 39° 02' N.

From the reestablished cor. of secs. 5-6-31 and 32, heretofore described on the S. bdy. of the Tp., I run N. 0° 03' W., bet. secs. 31 and 32.

Ascend over broken clay land.

9.00 Road, bears N.W. and S.E.

17.00 Begin abrupt ascent, over broken sandstone ledges, bearing E. and W.

25.00 Ridge, bears N.W. and S.E.

Descend over rocky land.

49.00 Set a granite stone, 20x10x8 ins., 15 ins. in the ground, for sec. cor., marked  $\frac{1}{4}$  on W. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

49.00 Hollow, 75 ft. deep, course N.E.

Ascend.

55.50 Spur, projects N.E.

Descend.

## Subdivisions of T.21 S., R.17 E.

## CHAINS

75.75 Hollow, 100 ft. deep, course N.E.

Leave rocky land, ascend over clay.

75.90 Road to Green River, bears N.W. and S.E.

80.00 Set a quartzite stone, 24x9x6 ins., 18 ins. in the ground, for cor. of secs. 29-30-31 and 32, marked with 1 notch on S. and 5 notches on E. edges, dig pits, 18x18x12 ins., in each sec. 5 $\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous.

Soil, clay and rocky, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

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N. 89° 56' E., on a random line, bet. secs. 29 and 32.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.04 Intersect N. and S. line, 3 lks. N. of the cor. of secs. 28-29-32 and 33.

Thence I run

S. 89° 57' W., on a true line,

Bet. secs. 29 and 32.

Ascend over clay land.

23.00 Spur, projects N.

Descend.

26.00 Hollow, 75 ft. deep, course N.

Ascend.

33.00 Ridge, bears N.W. and S.E.

Abrupt descent,

35.00 Hollow, 150 ft. below ridge, course S.

Ascend.

40.02 Ridge, bears N.E. and S.W.

Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 29 on N. face and 32 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base,

## Subdivisions of T. 21 S., R. 17 E.

CHAINS	
	1½ ft. high, N. of cor.
	Descend over broken land.
80.04	The cor. of secs. 29-30-31 and 32.
	Land, mountainous.
	Soil, clay, 3rd. rate.
	No timber.
	Mountainous land on 80.04 chs.
<hr/>	
	Knowing the line bet. secs. 30 and 31 will not close with limits on the west bdy. of the Tp., I run
	S. 89° 56' W., on a true line,
	Bet. secs. 30 and 31.
	Descend over clay land.
3.80	Road to Green River, bears N.W. and S.E. X
8.25	Hollow, 100 ft. deep, course N.W. X
	Abrupt ascent.
21.00	Spur, projects N.
	Descend.
26.00	Hollow, 75 ft. deep, course N.
	Ascend.
30.00	Enter rocky land.
40.00	Sandstone spur, projects N.
	Set a sandstone, 20x8x4 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{2}$ on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
	Descend.
43.00	Hollow, 75 ft. deep, course N.
	Ascend.
54.00	Rocky spur, projects N.
	Abrupt descent.
64.50	Hollow, 150 ft. deep, course N.
	Abrupt ascent.
77.72	Intersect the w. bdy. of the Tp., 74 lks. S. of the cor. of secs. 25-30-31 and 36, heretofore described.
	Set a sandstone, 15x8x6 ins., 10 ins. in the ground, for

## Subdivisions of T.21 S., R.17 E.

CHAINS

closing cor. to secs. 30 and 31, marked C.C. on E. with 1 groove on S. and 5 grooves on N. faces, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, E. of cor.

Pits impracticable.

I destroy all marks on the cor of secs. 25-30-31 and 36, that pertain to R.17 E.

Land, mountainous.

Soil, clay and rocky, 3rd. rate.

No timber.

Mountainous land on 77.72 chs.

N.0°03'W., bet. secs. 29 and 30.

Ascend over broken clay land.

23.00 Begin abrupt ascent, bears N.W. and S.E..

34.00 Ridge, 200 ft. above sec. cor., bears N.W. and S.E.

Descend over rolling land.

40.00 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. 30 on W. face, and 29 on E. face, dig pits, 18x18x12 ins., N. and S. of post., 3 ft. dist., and raise amount of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

50.00 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. of secs. 19-20-29 and 30, marke

T.21 S., S.20, on N.E.,

R.17 E., S.29 on S.E.,

S.30, on S.W., and

S.19, on N.W. face, with 2 notches on S. and 5 notches on E. edges, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous.

Soil, clay, 3rd. rate.

No timber.

Mountainous land on 80.00 chs.

## Subdivisions of T.21 S., R.17 E.

CHAINS	N. $89^{\circ}57' E.$ , on a random line, bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.02	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 20-21-28 and 29.
	Thence I run
	$S.89^{\circ}55' W.$ , on a true line, Bet. secs. 20 and 29.
	Ascend over rolling clay land.
24.75	Ridge, bears N.W. and S.E.
	Descend.
40.01	Set a redwood post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4} S 20$ on N. face, 29 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
48.25	Hollow, 100 ft. deep, course N.W.
	Ascend.
60.25	Spur, projects N.E.
	Descend...
63.00	Hollow, 75 ft. deep, course N.E.
	Ascend.
68.50	Spur, projects N.E.
	Descend.
73.00	Hollow, 75 ft. deep, course N.
	Ascend.
80.02	The cor. of secs. 19-20-29 and 30.
	Land, mountainous.
	Soil, clay, 3rd. rate...
	No timber.
	Mountainous land on 80.02 chs.

January 8, 1906

January 9: At 8h.07m., a.m., I. set off  $59^{\circ}58' N.$  on lat. arc,  $32^{\circ}06' S.$ , on decl. arc, and determine a meridian with the solar, at the cor. of secs. 19-20-29 and 30.

## Subdivisions of T. 21 S., R. 17 E.

## CHAINS

Knowing the line bet. secs. 19 and 30 will not close withi  
limits on the west bdy. of the Tp., I run  
S.  $89^{\circ}56'W.$ , on a true line,

Bet. secs. 19 and 30.

Ascend over broken clay land.

21.00 Ridge, bears N.E. and S.W.

Descend.

24.25 Hollow, 75 ft. deep, course N.E.

Ascend.

28.50 Ridge, bears N.E. and S.W.

Descend.

32.00 Hollow, 75 ft. deep, course N.E.

Ascend.

37.75 Spur, projects N.

Descend.

40.00 Set a pine post., 3 ft. long, 4 ins. sq., with marked stone,  
.24 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S 19 on N.  
face, 30 on S.face, dig pits, 18x18x12 ins., E. and W. of post,  
3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft.  
high, N. of cor.

40.50 Hollow, 75 ft. deep, course N.E.

Ascend.

48.85 Ridge, bears N.W. and S.E.

Abrupt descent.

59.00 Foot of abrupt descent, bears N.W. and S.E.

Descend over broken clay land.

77.55 Intersect W.bdy. of Tp., 2.15 chs., S.  $0^{\circ}04'W.$ , of the cor.of  
secs. 19-24-25 and 30, heretofore described.

Set a quartzite stone, 18x10x6 ins., 12 ins. in the ground,  
for closing cor.of secs. 19 and 30, marked C C on E., with  
2 grooves on S. and 4 grooves on N. faces, dig pits, 24x18x  
12 ins., crosswise on each line, N. and S. 3 ft. and E. of stone  
7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high,  
E. of cor. I destroy all marks on the cor.of secs. 19-24-25  
and 30, that pertain to R. 17 E.  
Land, mountainous.

## Subdivisions of T.21 S., R.17 E.

	CHAINs	Soil, clay, 3rd. rate. No timber. Mountainous land on 77.55 chs.
		N.0°03'W., betsecs. 19 and 20.
		Descend over rolling land.
39.25		Wash, 40 lks.wide, 10 ft.deep,, in hollow, 75 ft.deep, course N.W.
		Ascend.
40.00		Set a redwood post, 3 ft.long, 3 ins.sq., with marked stone, 24 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S 19 on W. face, 20 on E.face, dig pits, 18x18x12 ins, N.and S.of post, 3 ft.dist., and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high, W.of cor.
70.00		Spur, projects N.W.
		Descend.
78.63		Road from Little Grande to Green River, bears N.W. and S.E. on Rio Grande Western Railroad, which bears N.86°45'E. and S.86°45'W.
79.10		Telegraph line, bears N.86°45.E. and S.86°45'W.
80.00		Set a pine post, 3 ft.long, 4 ins.sq., with marked stone, 24 ins.in the ground, for cor.of secs.17-18-19 and 20, marked T.21 S., S.17, on N.E.
		R.17 E., S.20, on S.E.
		S.19 on S.W., and
		S.18, on N.W.face, with 3 notches on S.and 5 notches on E. edges, from which
		The 550 mile post, on the Rio Grande Western Railroad, which is a black topped, white post, 8 ins.sq., 8 ft.above ground, marked D.550, on S.E. and S.W.faces, bears S.7°40'E., 1.26.chs.dist.
		No other bearing objects available, dig pits, 18x18x12 ins. in each sec., $5\frac{1}{2}$ ft.dist., and raise a mound of earth, 4 ft.base, 2 ft.high, W.of cor.
		Land, rolling.

## Subdivisions of T. 21. S., R. 17 E.

## CHAINS

Soil, clay; 3rd. rate.

No timber.

January 9; At this cor. I set off 22° 07' S. on decl. arc., an at 12h. 07m., l.m.t., observe the sun on the meridian, the resulting lat. is 38° 59' N.

N. 89° 55' E., on a random line, bet. secs. 17 and 20.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.00 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 16-17-20 and 21.

Thence I run

S. 89° 57' W., on a true line,

Bet. secs. 17 and 20.

Over level land.

40.00 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 17 on N. face 20 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 f. dist., and raise amount of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

80.00 The cor. of secs. 17-18-19 and 20.

Land, level.

Soil, clay loam, 2nd. rate.

No timber.

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Knowing the line bet. secs. 18 and 19, will not close with limits on the west bdy. of the Tp., I run

S. 89° 56' W., on a true line,

Bet. secs. 18 and 19.

Descend over rolling clay land.

4.50 Road from Little Grande to Green River, bears N.W. and S.E.

16.00 Hollow, 50 ft. deep, course N.W.

Ascend.

40.00 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 18, on N. fac , 19 on S. face, dig pits, 18x18x12 .ins., E. and W. of post, 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

## Subdivisions of T.21 S., R.17 E.

## CHAINS

- 53.90 Telegraph line, bears N. $66^{\circ}00'$ W. and S. $66^{\circ}00'$ E.
- 55.80 Rio Grande Western Railroad, bears N. $66^{\circ}00'$ W. and S. $66^{\circ}00'$ E.
- 76.94 Intersect W.bdy.of Tp., 3.74 chs.; S: $0^{\circ}21'$ W., of the cor.of secs.13-18-19 and 24, heretofore described.  
Set a sandstone, 18x12x6 ins., 12 ins.in the ground, for closing cor.of secs.18 and 19, marked C C on E., with 3 grooves on N. and S.faces, and raise a mound of stone, 2 ft.base,  $1\frac{1}{2}$  ft.high, E.of cor.  
Pits impracticable.  
I destroy all marks on the cor.of secs.13-18-19 and 24, that pertain to R.17 E.  
Land, rolling.  
Soil, clay, 3rd.rate.  
No timber.

N. $0^{\circ}03'$ W., betsecs.17 and 18.

Over rolling land.

- 40.00 Set a pine post, 3 ft.long, 4 ins.sq., with marked stone, 24 ins.in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S.18 on W. face 17 on E.face, dig pits, 18x18x12 ins., N. and S.of post,  $\frac{3}{4}$  ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high, W.of cor.
- 62.00 Wash, 1.00 ch.wide, 15 ft.deep, course W.
- 68.00 Begin abrupt ascent, bears E.and W.
- 71.00 Top of clay knoll, 100 ft.high, bears E.and W.  
Abrupt descent.
- 78.00 Foot of abrupt descent., bears E.and W..  
Over level land.
- 80.00 Set a redwood post, 3 ft.long, 4 ins.sq., with marked stone, 24 ins.in the ground, for cor.of secs.7-8-17 and 18, marked T.21 S., S.8, on N.E.,  
R.17 E., S.17, on S.E.,  
S.18, on S.W., and  
S.7, on N.W.face, with 4 notches on S. and 5 notches on E.

## Subdivisions of T.21 S., R.17 E.

## CHAINS

edges, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, level and mountainous.

Soil, clay loam on 70.00 chs., 2nd. rate.

balance, clay, 3rd. rate.

No timber.

Mountainous land on 10.00 chs.

January 9, 1906.

January 10: At 8h.07m., a.m.l., l.m.t., I set off  $39^{\circ}00'N.$ , on lat.arc,  $21^{\circ}37'S.$  on decl.arc, and determine a meridian with the solar, at the cor. of secs. 7-8-17 and 18.

Thence I run

$N.89^{\circ}57'E.$ , on a random line, bet. secs. 8 and 17.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.02 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 8-9-16 and 17.

Thence I run

$S.89^{\circ}59'W.$ , on a true line,

Bet. secs. 8 and 17.

Over level land.

21.80 Wash, 50 lks. wide, 20 ft. deep, course S.W.

40.01 Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4} S 8$  on N. face, 17 on S. face, dig pits, 18x18x12 ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

56.00 Begin abrupt ascent, bears N. and S..

58.50 Knoll, 100 ft. high, bears N. and S..

Abrupt descent.

62.00 Foot of abrupt descent, bears N. and S..

Over level land.

80.02 The cor. of secs. 7-8-17 and 18.

~~660~~  
Land, level and mountainous.

~~94.03~~  
Soil, clay loam, on 74.02 chs., 2nd. rate.

## Subdivisions of T.21 S., R.17 E.

## CHAINS

balance, clay, 4th. rate.

No timber.

Mountainous land on 6.00 chs.

Knowing the line bet. secs. 7 and 18 will not close within limits on the W.bdy. of the Tp., I run

S.89°56'W., on a true line,

Bet. secs. 7 and 18.

Over level land.

40.00 Set a redwood post, 3 ft. long, 3 ins., sq., with marked stone 24 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S 7 on N. face, 18 on S. face, dig pits, 18x18x12 ins., E. and W. of post 3 ft. dist., and raise a mound of earth, 3 $\frac{1}{2}$  ft. base, 1 $\frac{1}{2}$  ft. high, N. of cor.

76.96 Intersect W.bdy. of Tp., 4.46 chs., S.0°05'E., of the cor. of secs. 7-12-13 and 18, heretofore described.

Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone 24 ins. in the ground, for closing cor. of secs. 7 and 18, marked C.C T.21 S., R.17 E., on E.,

S.7, on N., and

S.18 on S. face, with 4 grooves on S. and 2 grooves on N. faces, dig pits, 24x18x12 ins., crosswise on each line, N. and S., 3 ft. and E. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

I destroy all marks on the cor. of secs. 7-12-13 and 18, that pertain to R.17 E.

Land, level.

Soil, clay loam, 2nd. rate.

No timber.

N.0°03'W., bet. secs. 7 and 8.

Over level land.

40.00 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S 7. on W. and 8 on E. faces, dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist., and

## Subdivisions of T.21 S., R.17 E.

## CHAINS

raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

50.00 Enter sandy land and dense artemisia.

80.00 Set a redwood post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for cor. of secs. 5-6-7 and 8, marked T.21 S., S.5 on N.E., R.17 E., S.8, on S.E., S.7 on S.W., and

S.6, on N.W. face, with 5 notches on S. and E. edges, dig pits, 18x18x12 ins., in each sec.,  $5\frac{1}{2}$  ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, level.

Soil, clay loam and sandy, 2nd. rate.

No timber.

Dense undergrowth on 50.00 chs.

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N. $89^{\circ}59' E.$ , on a random line, bet. secs. 5 and 8.

40.00 Set temp.  $\frac{1}{4}$  sec. cor.

80.02 Intersect N. and S. line, 5 lbs. S. of the cor. of secs. 4-5-8 and 9.

Thence I run

S. $89^{\circ}57' W.$ , on a true line,

Bet. secs. 5 and 8.

Over level sandy land, through dense artemisia.

27.50 Wash, 1.00 ch. wide, 20 ft. deep, course S.

40.01 Set a pine post., 3 ft. long, 3 ins., sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S 5 on N. face, 8 on S. face, dig pits, 18x18x12 ins., E. and W. of post. 3 ft. dist. and raise a mound of earth,  $2\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

80.02 The cor. of secs. 5-6-7 and 8.

Land, level.

Soil, sandy loam, 2nd. rate.

No timber.

Dense undergrowth on 80.02 chs.

January 10: At this cor., I set off  $21^{\circ}59'' S.$  on decl. arc, and

## Subdivisions of T. 21 S., R. 17 E.

CHAINS at 12h.07m., l.m.t., observe the sun on the meridian, the resulting lat. is  $39^{\circ}01'N$ .

Knowing the line bet. secs. 6 and 7 will not close within limits on the W.bdy. of the Tp., I run

$S.89^{\circ}56'W.$ , on a true line.

Bet. secs. 6 and 7.

Over level sandy land, through dense artemisia.

40.00 Set a pine post, 3 ft. long, 3 ins. sq., with marked stone, 24 ins. in the ground, for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S. 6 on N. face, 7 on S. face, dig pits,  $18x18x12$  ins., E. and W. of post, 3 ft. dist., and raise a mound of earth,  $3\frac{1}{2}$  ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

76.71 Intersect W.bdy. of Tp., 5.00 chs.,  $50^{\circ}17'W.$ , of the cor. of secs. 1-6-7 and 12, heretofore described.

Set a pine post, 3 ft. long, 4 ins. sq., with marked stone, 24 ins. in the ground, for closing cor. of secs. 6 and 7, marked C.C T. 21 S., R. 17 E., on E.,

S. 6 on N., and

S. 7 on S., face, with 5 grooves on S. and 1 groove on N. faces, dig pits,  $24x18x12$  ins., crosswise on each line, N. and S. 3 ft. and E. of post, 7 ft. dist., and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

I destroy all marks on the cor. of secs. 1-6-7 and 12, that pertain to R. 17. E..

Land, level.

Soil, sandy, 2nd. rate.

No timber.

Dense undergrowth on 76.71 chs.

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The north bdy. of the Tp., is the Fourth Standard Parallel South, therefore I run

$N.0^{\circ}03'W.$ , on a true line,

Bet. secs. 5 and 6.

## Subdivisions of T. 21 S., R. 17 E.

Chains. Over level sandy land; through dense artemisia.

40.00 Set a pine post 3 ft.long, 3 ins.sq., with marked stone, 24 ins.in the ground, for  $\frac{1}{2}$  sec.cor., marked  $\frac{1}{2}$  S 6 on W.face, 5 on E.face; dig pits 18x18x12 ins.N.and S.of post, 3 ft.dist., and raise a mound of earth  $3\frac{1}{2}$  ft.base,  $1\frac{1}{2}$  ft.high W.of cor.

127.25 Intersect Fourth Standard Parallel South 20.00 chs.S.  $89^{\circ} 35'$  E.of standard cor.of secs.35 and 36 T. 20 S. R.16 E., which is a sandstone 7x6x10 ins.above ground firmly set and properly marked as described by the surveyor general.

Set a pine post, 3 ft.long, 4 ins.sq., with marked stone, 24 ins.in the ground,for closing cor.of secs. 5 and 6, marked C C T 21 S R 17 E on S.

S 5 on E., and

S 6 on W.face, with 5 grooves on E. and 1 groove on W.face; dig pits 24x18x12 ins.cross-wise on each line, E. and W.3 ft.and S.of post 7 ft. dist.; and raise a mound of earth 4 ft. bas e, 2 ft. high S.of cor.

Land level.

Soil sandy loam, 2d rate.

No timber.

Dense undergrowth on 127.25 chs.

January 10, 1906.

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General Description.

This township lies at the foot of the Book Cliffs on the east side of Green River. Said cliffs run across the northeastern corner of the township, which portion was not surveyed on account of the perpendicular nature of the cliffs.

General Description T. 21 S. R. 17 E.

The southern portion of the township is badly broken by sandstone and clay breaks, which is also the character of the land in the northeastern portion of the township; while the balance is generally clay or sandy loam, capable of producing crops with irrigation.

Part of the level land is covered with a dense growth of artemisia and greasewood.

The main line of the Rio Grande Western Railroad runs across the southern half of the township in an eastern and western direction.

There is neither water or timber in this township. There was no mineral found in this township.

There are no settlers in this township.



U.S. Deputy Surveyor.

## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by .....  
 ..... United States Deputy Surveyor, to assist in running, measuring, and  
 marking the lines and corners described in the foregoing field notes of the survey of .....  
 owing the respective capacities in which they acted:

....., *Chainman.*  
 ....., *Chainman.*  
 or Final affidavits see book "U" Tp. 21 S., R. 15 E. ...., *Moundman.*  
 ....., *Moundman.*  
 ....., *Axman.*  
 ....., *Axman.*  
 ....., *Flagman.*

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted .....  
 ..... United States Deputy Surveyor, in surveying all  
 those parts or portions of the .....  
 ..... of the .....  
 ..... meridian, ..... of ..... which are represented

the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
 been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
 corner monuments established, according to the instructions furnished by the United States Surveyor  
 general for .....

or Final affidavits see book "U" Tp. 21 S., R. 15 E. ...., *Chainman.*  
 ....., *Chainman.*  
 ....., *Moundman.*  
 ....., *Moundman.*  
 ....., *Axman.*  
 ....., *Axman.*  
 ....., *Flagman.*

scribed and sworn to before me this ..... }  
 day of ..... , 190 }



## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, \_\_\_\_\_, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from \_\_\_\_\_, bearing date of \_\_\_\_\_, United States Surveyor General for \_\_\_\_\_, day of \_\_\_\_\_, 190\_\_\_\_\_, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for \_\_\_\_\_, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of \_\_\_\_\_.

For final affidavits see book "U" Tp. 21 S., R. 15 E.

\_\_\_\_\_ of the \_\_\_\_\_ meridian, in the \_\_\_\_\_, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for \_\_\_\_\_, and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

*United States Deputy Surveyor*

Subscribed by said \_\_\_\_\_, and sworn to before me }  
this \_\_\_\_\_ day of \_\_\_\_\_, 190\_\_\_\_\_. }



## APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, March 18, 1905.

The foregoing field notes of the survey of the Subdivisional lines of Township No. 21 South, Range No. 17 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist and Earl V. Woolley under their contract No. 281, dated June 3, 1905, having critically examined, and the necessary corrections and explanations made the said field notes, surveys they describe, are hereby approved.

*H. M. Keele*  
United States Surveyor Gen

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

*United States Surveyor Gen*